

US00D960114S

(12) **United States Design Patent** (10) **Patent No.:** **US D960,114 S**
Mench et al. (45) **Date of Patent:** **** Aug. 9, 2022**

(54) **TAMPERING DETECTION ENCLOSURE** 7,451,627 B2 11/2008 Horngren et al.
 D613,697 S 4/2010 Symons
 (71) Applicant: **University of Tennessee Research** D632,030 S 2/2011 Lumsden
Foundation, Knoxville, TN (US) 7,887,360 B2 2/2011 Andrade
 (72) Inventors: **Matthew M. Mench, Knoxville, TN** 7,963,131 B2 6/2011 Zhang et al.
(US); Matthew A. Young, Rockford, 8,016,792 B2 9/2011 Wright et al.
TN (US) D680,083 S * 4/2013 Olson D13/156
 8,408,929 B2 * 4/2013 Solon H01R 13/639
 439/301
 (73) Assignee: **University of Tennessee Research** 8,474,784 B2 7/2013 Kashmirian
Foundation, Knoxville, TN (US) 8,556,859 B2 10/2013 Nilson
 (**) Term: **15 Years** 8,848,347 B2 9/2014 Doorn et al.
 8,960,973 B1 * 2/2015 Kathawate H01R 4/70
 362/375
 (21) Appl. No.: **29/696,559**
 (22) Filed: **Jun. 28, 2019**

Related U.S. Application Data

(63) Continuation-in-part of application No. 15/492,704,
 filed on Apr. 20, 2017, now Pat. No. 10,722,622.
 (51) **LOC (13) Cl.** **13-03**
 (52) **U.S. Cl.**
 USPC **D13/156**
 (58) **Field of Classification Search**
 USPC D13/184, 156; D8/356; D10/104.1
 CPC G01G 23/017; G02B 6/4446; H01R
 13/6392; H01R 13/639; H01R 4/70
 See application file for complete search history.

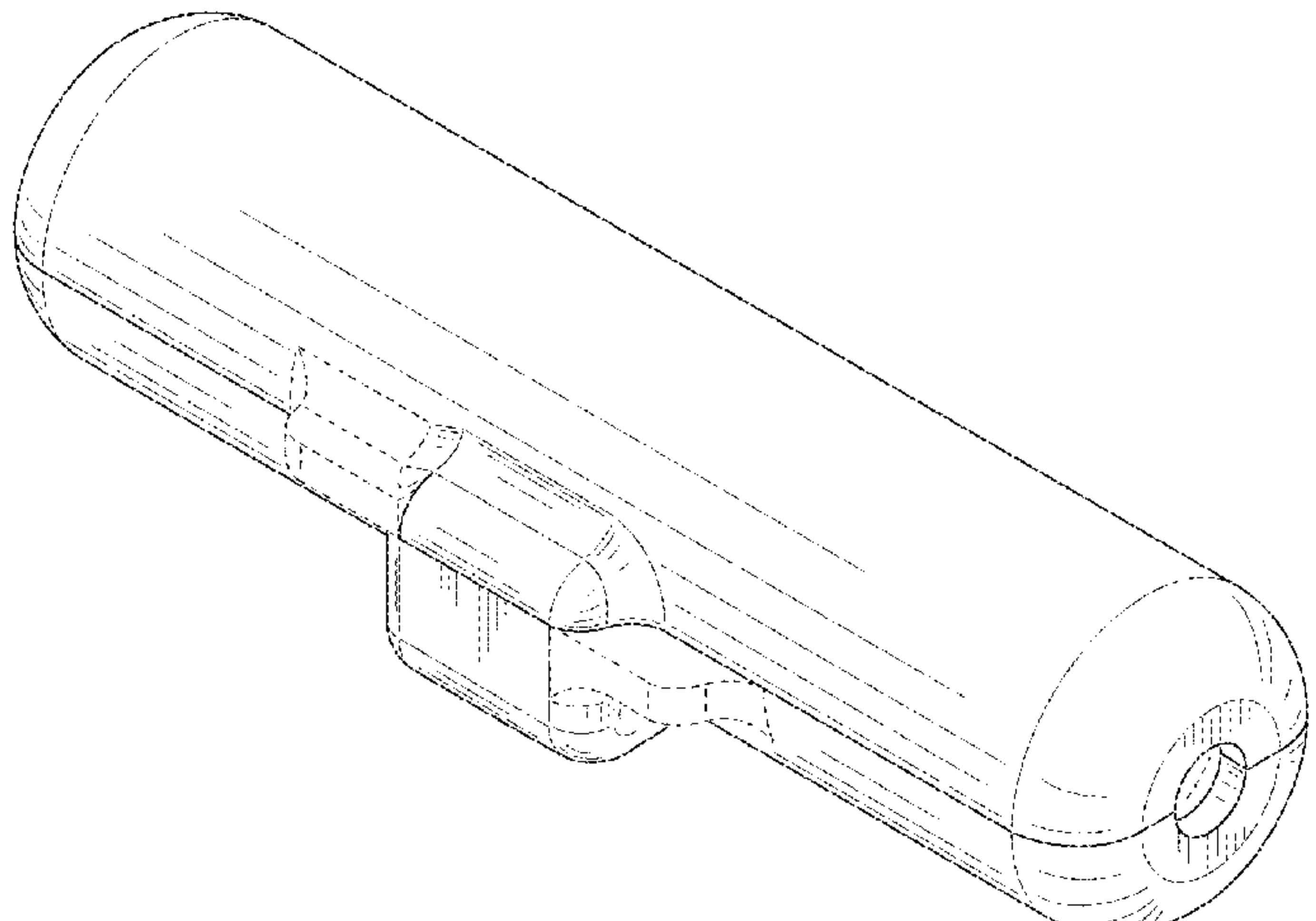
References Cited

U.S. PATENT DOCUMENTS

4,286,640 A	9/1981	Knox et al.	2011/0215683 A1	9/2011	Nakasuji
4,425,116 A	1/1984	Bilstad et al.	2014/0100533 A1	4/2014	Lyons
4,782,977 A	11/1988	Watanabe et al.	2014/0303595 A1	10/2014	Justus et al.
5,427,260 A	6/1995	Mueller et al.	2015/0060455 A1	3/2015	Chou
5,531,695 A	7/1996	Swisher	2015/0367119 A1	12/2015	Stillson
5,893,475 A	4/1999	May	2017/0049954 A1	2/2017	Edwards
6,065,408 A	5/2000	Tillim et al.	2017/0165437 A1	6/2017	Lopansri
6,265,665 B1	7/2001	Zahnen	2019/0127134 A1	5/2019	Iorio
6,328,355 B1	12/2001	Bortz	2019/0275263 A1	9/2019	Lopansri
D465,843 S	11/2002	Guala			
6,553,930 B1	4/2003	Johnston			
6,926,165 B2	8/2005	Conti			
7,074,212 B1	7/2006	Florea			
7,141,738 B2	11/2006	Marsac et al.			
7,273,984 B2	9/2007	Murphy			
D569,349 S *	5/2008	Preston D13/156			
7,438,198 B2	10/2008	Pickles			

OTHER PUBLICATIONS

Interview Summary corresponding to U.S. Appl. No. 15/492,704 dated Oct. 29, 2019.
 Office Action (Restriction Requirement) corresponding to U.S. Appl. No. 15/492,704 dated Sep. 12, 2019.
 Office Action (Restriction Requirement) corresponding to U.S. Appl. No. 16/596,479 dated Dec. 19, 2019.



Notice of allowance corresponding to U.S. Appl. No. 15/492,704 dated Feb. 5, 2020.

Notice of Allowance corresponding to U.S. Appl. No. 16/596,479 dated Mar. 18, 2020.

Corrected Notice of Allowability corresponding to U.S. Appl. No. 15/492,704 dated Mar. 23, 2020.

Notice of Allowance corresponding to U.S. Appl. No. 15/492,704 dated May 28, 2020.

Notice of Allowance corresponding to U.S. Appl. No. 29/696,560 dated Mar. 15, 2022.

Notice of Allowance corresponding to U.S. Appl. No. 29/696,560 dated Dec. 3, 2021.

Notice of Allowance corresponding to U.S. Appl. No. 29/696,560 dated Aug. 12, 2021.

* cited by examiner

Primary Examiner — George D. Kirschbaum
(74) *Attorney, Agent, or Firm* — Jenkins, Wilson, Taylor & Hunt, P.A.

(57) **CLAIM**

The ornamental design for a tampering detection enclosure, as shown and described.

DESCRIPTION

FIG. 1 is a top, front, and right perspective view of a tampering detection enclosure showing the design according to a first embodiment;

FIG. 2 is a top, rear, and left perspective view of a tampering detection enclosure showing the design according to a first embodiment;

FIG. 3 is a front elevation view thereof;

FIG. 4 is a rear elevation view thereof;

FIG. 5 is a right side elevation view thereof;

FIG. 6 is a left side elevation view thereof;

FIG. 7 is a top view thereof;

FIG. 8 is a bottom view thereof;

FIG. 9 is a top, front, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 1;

FIG. 10 is a bottom, rear, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 1;

FIG. 11 is a rear elevation view thereof showing an alternate position of the embodiment shown in FIG. 4;

FIG. 12 is front elevation view thereof showing an alternate position of the embodiment shown in FIG. 3;

FIG. 13 is a right side elevation view thereof showing an alternate position of the embodiment shown in FIG. 5;

FIG. 14 is a left side elevation view thereof showing an alternate position of the embodiment shown in FIG. 6;

FIG. 15 is a top view thereof showing an alternate position of the embodiment shown in FIG. 7;

FIG. 16 is a bottom view thereof showing an alternate position of the embodiment shown in FIG. 8;

FIG. 17 is a top, front, and right perspective view of a tampering detection enclosure showing the design according to a second embodiment;

FIG. 18 is a top, rear, and left perspective view of a tampering detection enclosure showing the design according to a second embodiment;

FIG. 19 is a front elevation view thereof;

FIG. 20 is a rear elevation view thereof;

FIG. 21 is a right side elevation view thereof;

FIG. 22 is a left side elevation view thereof;

FIG. 23 is a top view thereof;

FIG. 24 is a bottom view thereof;

FIG. 25 is a top, front, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 17;

FIG. 26 is a bottom, rear, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 17;

FIG. 27 is a rear elevation view thereof showing an alternate position of the embodiment shown in FIG. 20;

FIG. 28 is front elevation view thereof showing an alternate position of the embodiment shown in FIG. 19;

FIG. 29 is a right side elevation view thereof showing an alternate position of the embodiment shown in FIG. 21;

FIG. 30 is a left side elevation view thereof showing an alternate position of the embodiment shown in FIG. 22;

FIG. 31 is a top view thereof showing an alternate position of the embodiment shown in FIG. 23;

FIG. 32 is a bottom view thereof showing an alternate position of the embodiment shown in FIG. 24;

FIG. 33 is a top, front, and right perspective view of a tampering detection enclosure showing the design according to a third embodiment;

FIG. 34 is a top, rear, and left perspective view of a tampering detection enclosure showing the design according to a third embodiment;

FIG. 35 is a front elevation view thereof;

FIG. 36 is a rear elevation view thereof;

FIG. 37 is a right side elevation view thereof;

FIG. 38 is a left side elevation view thereof;

FIG. 39 is a top view thereof;

FIG. 40 is a bottom view thereof;

FIG. 41 is a top, front, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 33;

FIG. 42 is a bottom, rear, and right perspective view thereof showing an alternate position of the embodiment shown in FIG. 33;

FIG. 43 is a rear elevation view thereof showing an alternate position of the embodiment shown in FIG. 35;

FIG. 44 is front elevation view thereof showing an alternate position of the embodiment shown in FIG. 36;

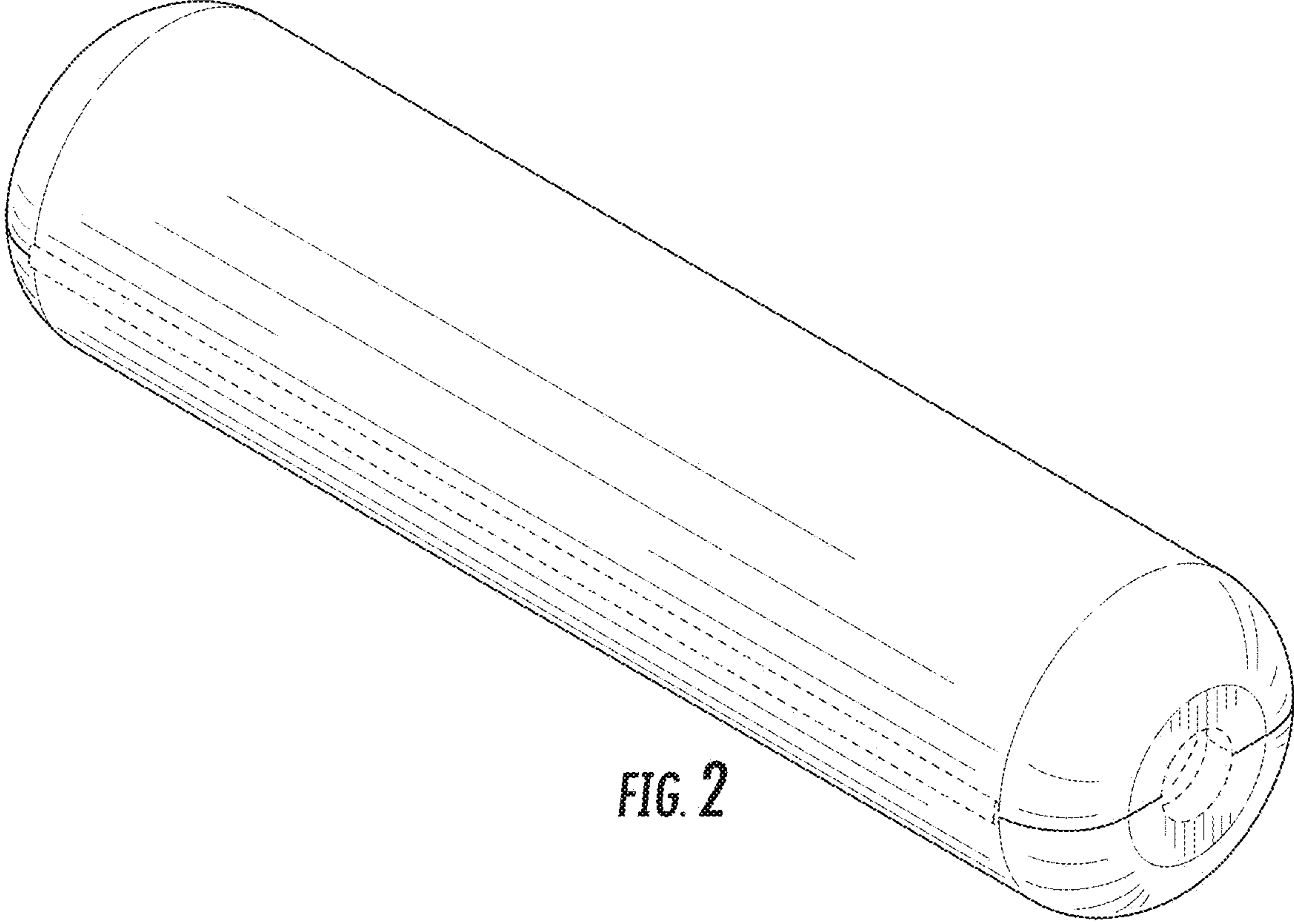
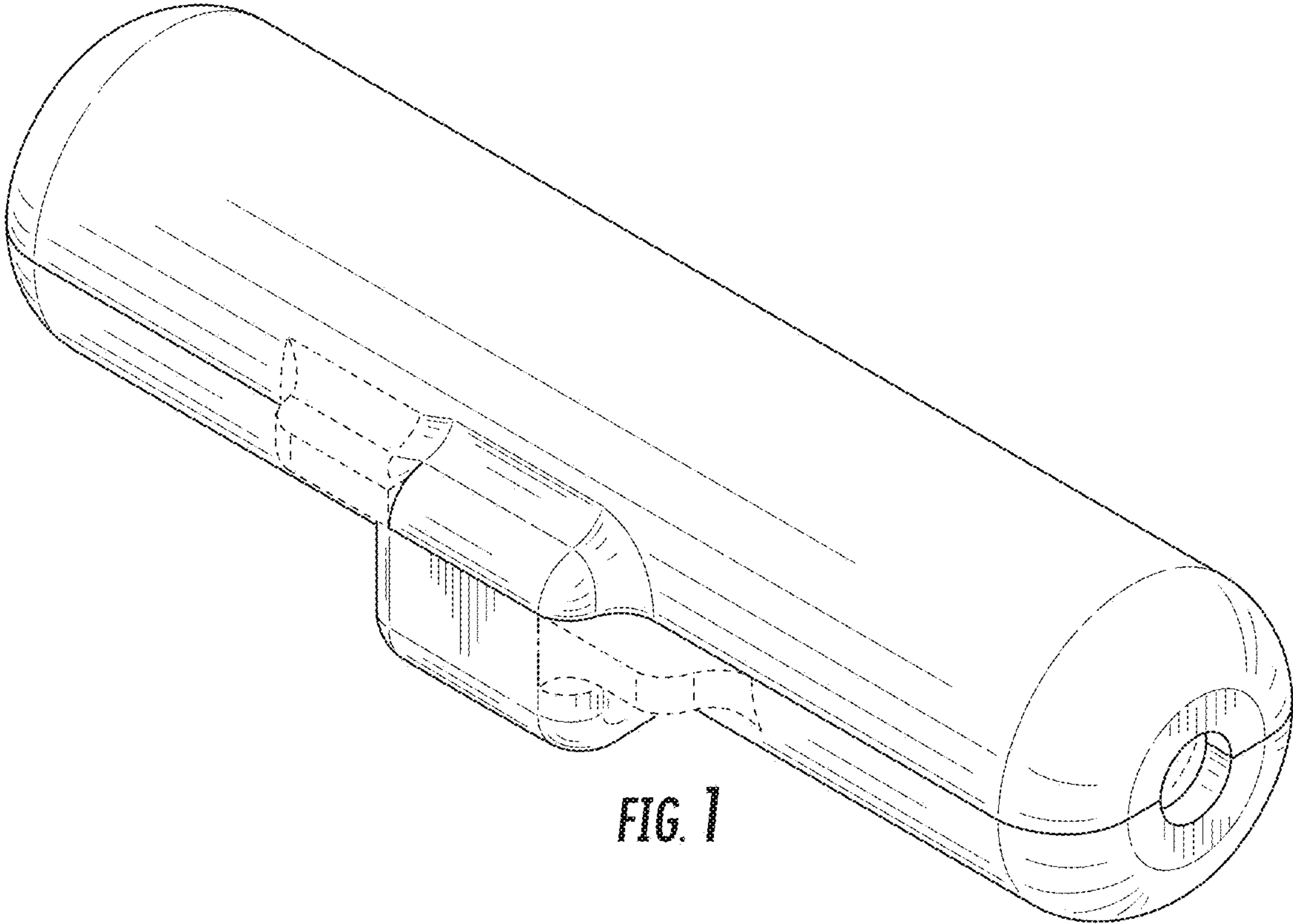
FIG. 45 is a right side elevation view thereof showing an alternate position of the embodiment shown in FIG. 37;

FIG. 46 is a left side elevation view thereof showing an alternate position of the embodiment shown in FIG. 38;

FIG. 47 is a top view thereof showing an alternate position of the embodiment shown in FIG. 39; and,

FIG. 48 is a bottom view thereof showing an alternate position of the embodiment shown in FIG. 40.

The dashed broken lines are for illustrative purpose only and form no part of the claimed design.



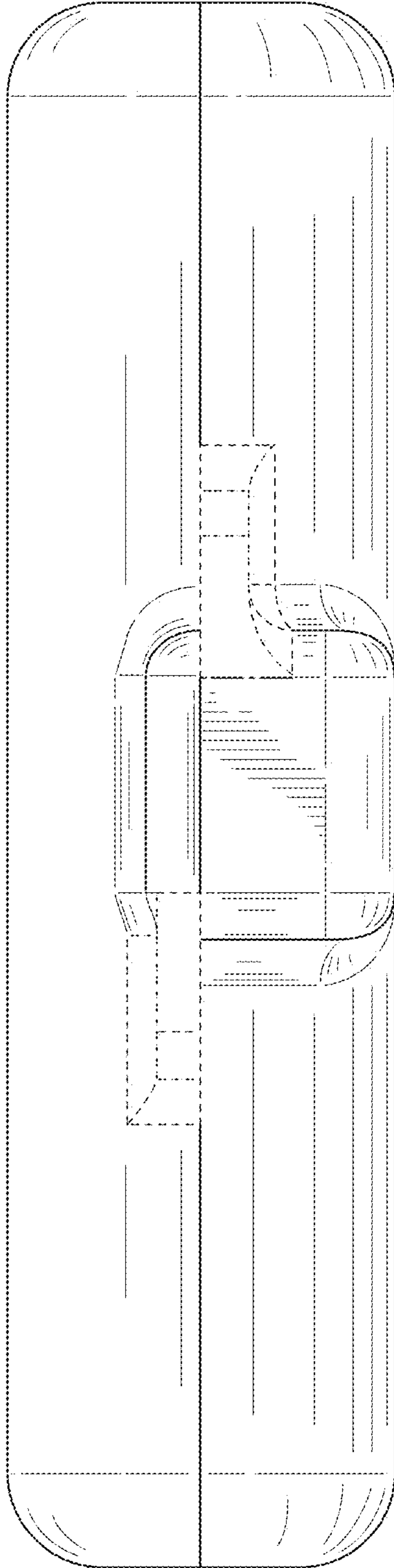


FIG. 3

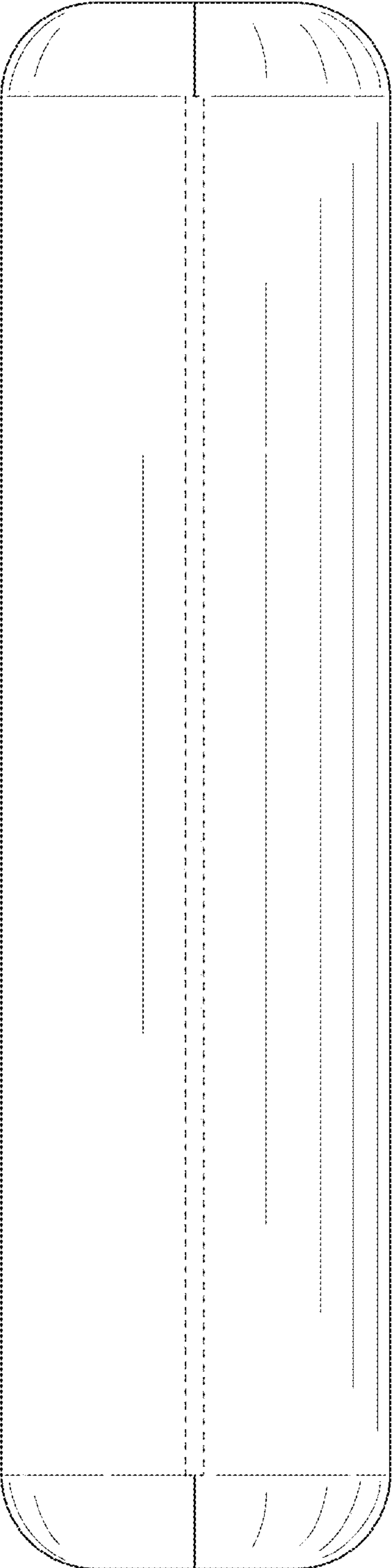


FIG. 4

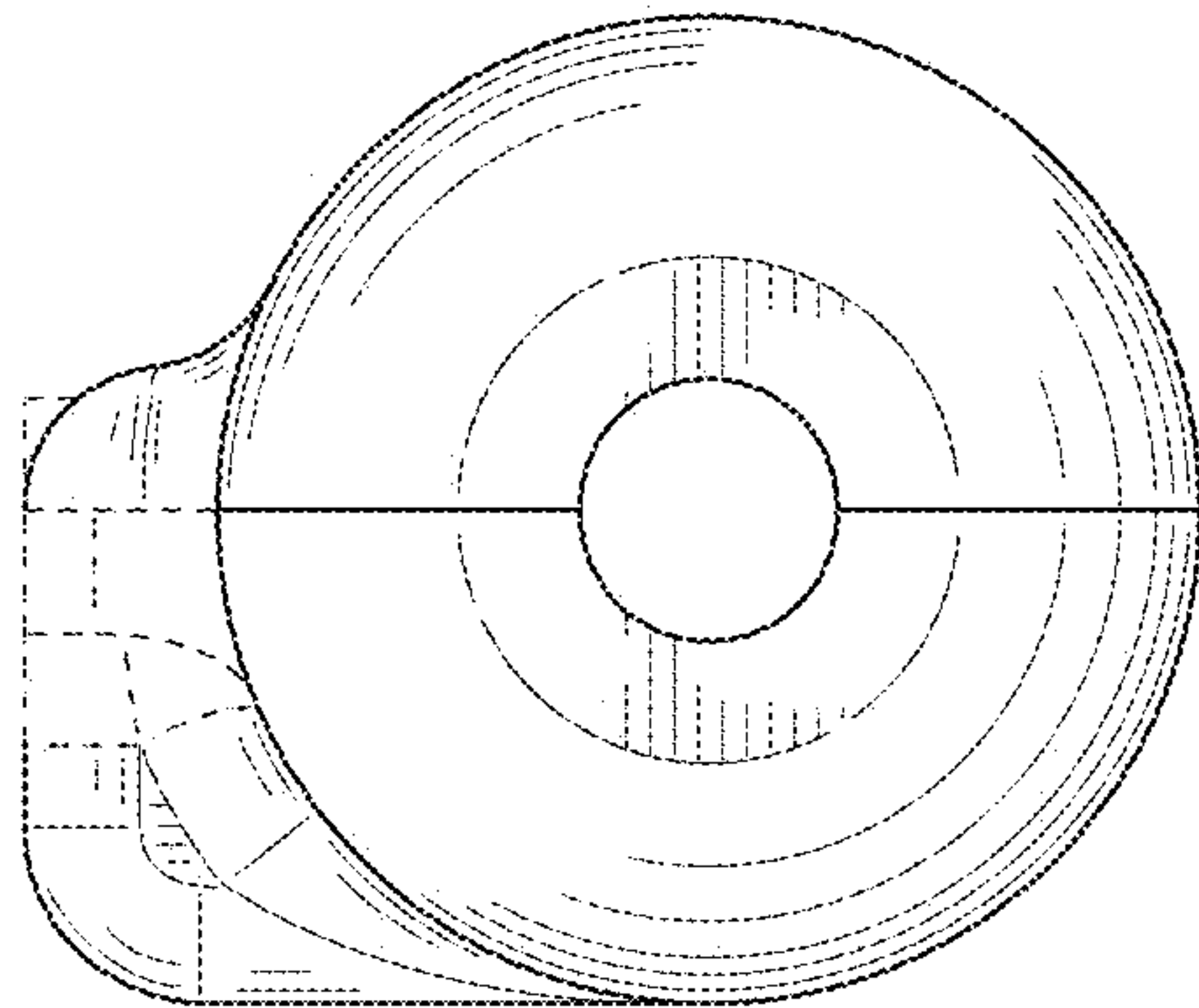


FIG. 5

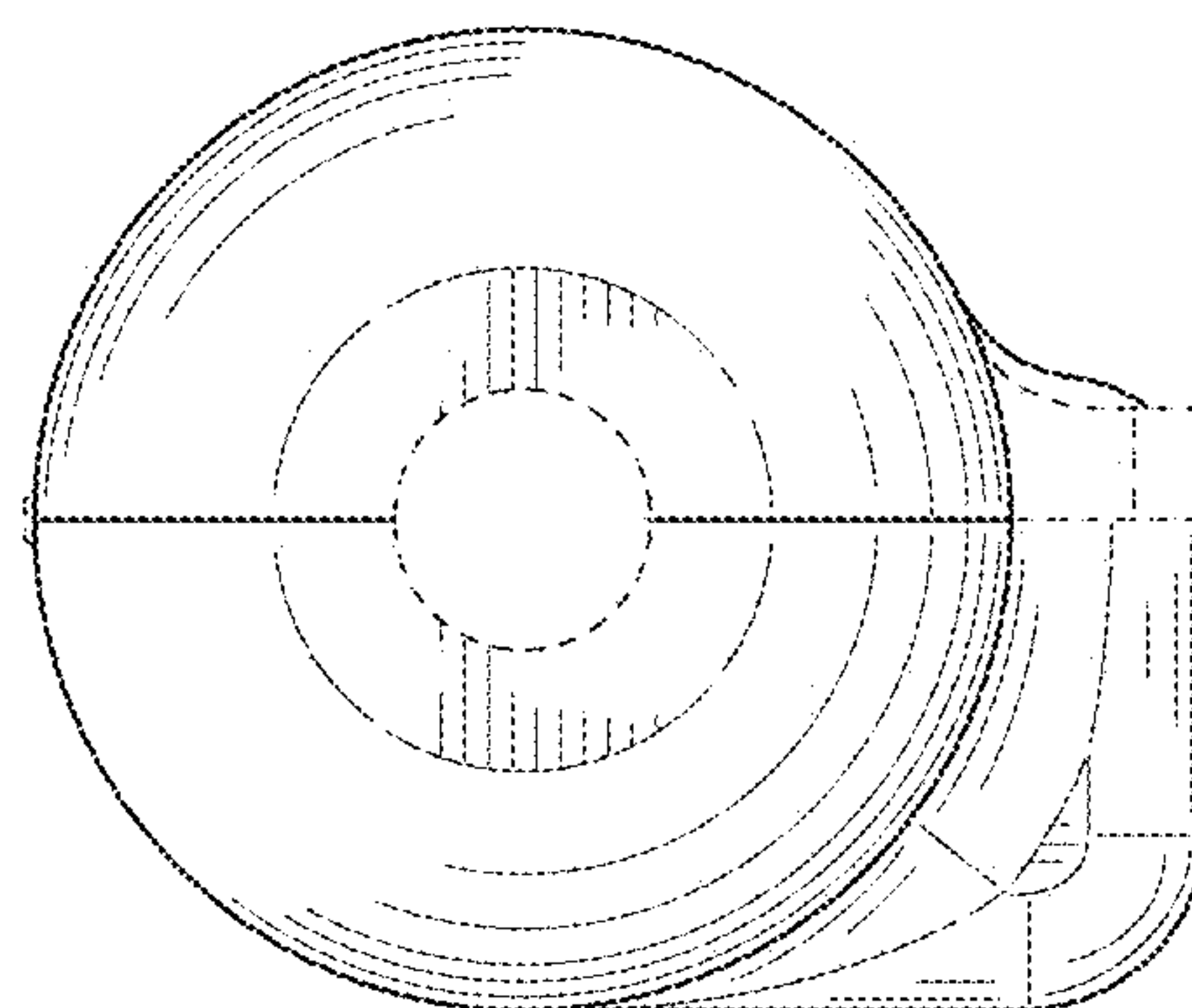


FIG. 6

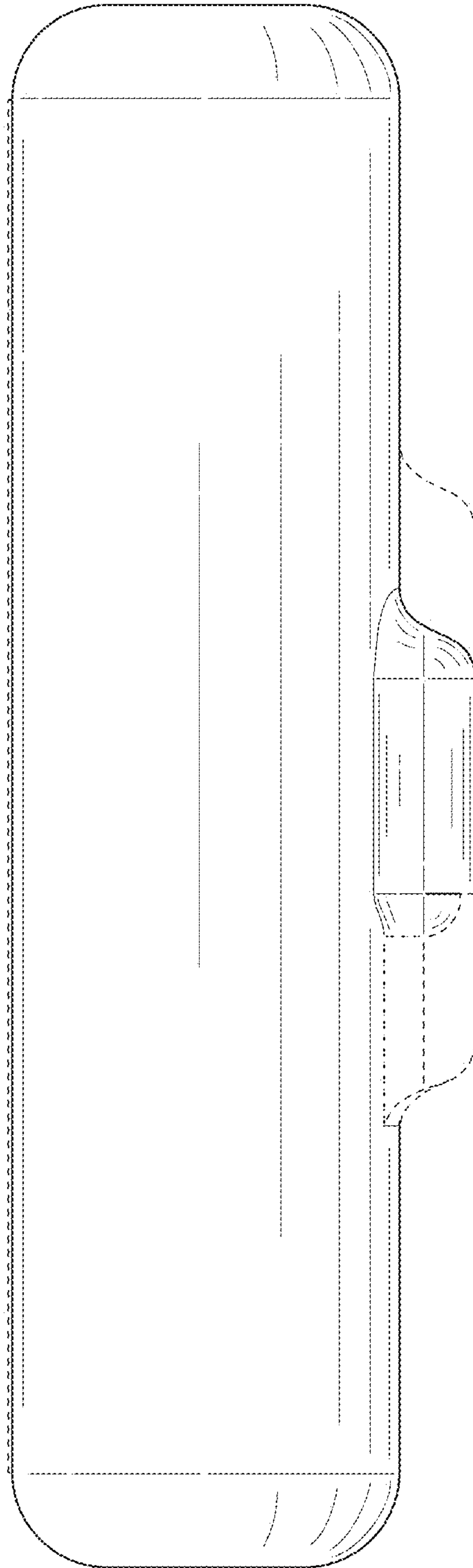


FIG. 7

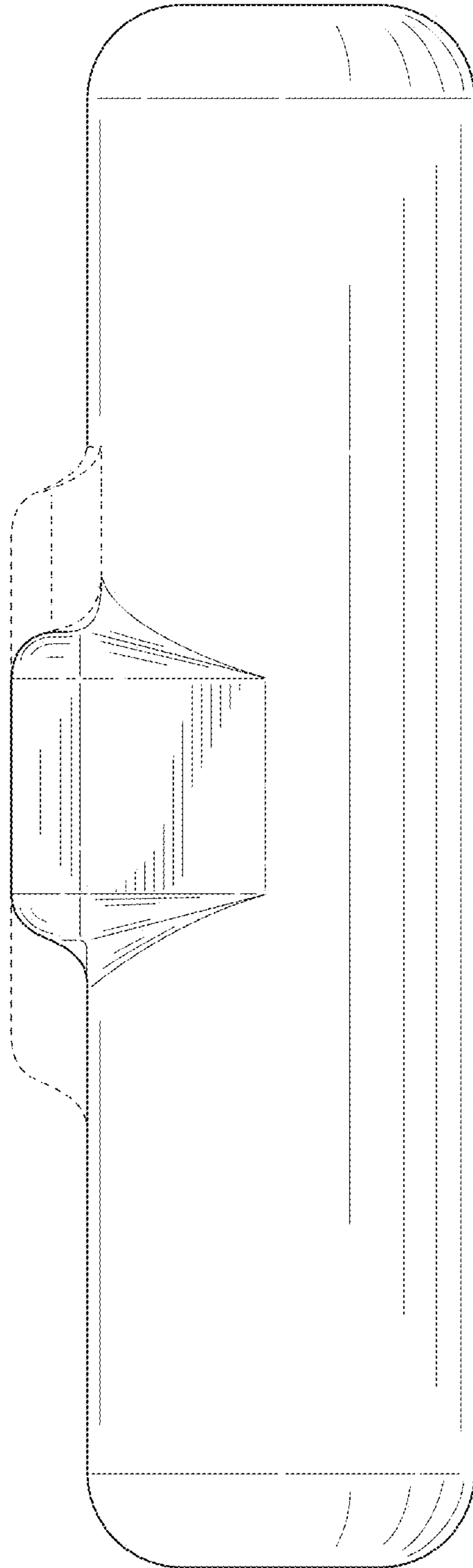


FIG. 8

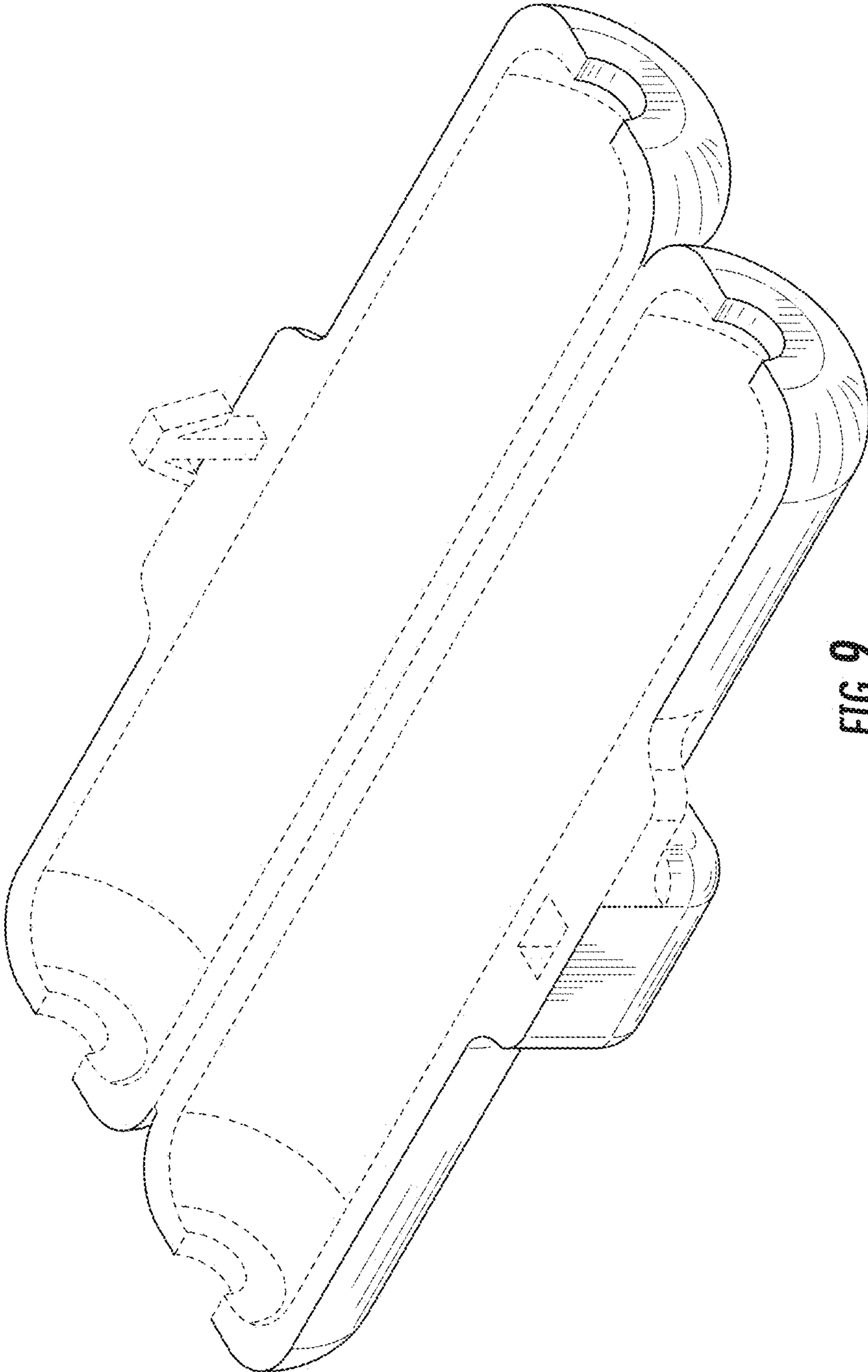


FIG. 9

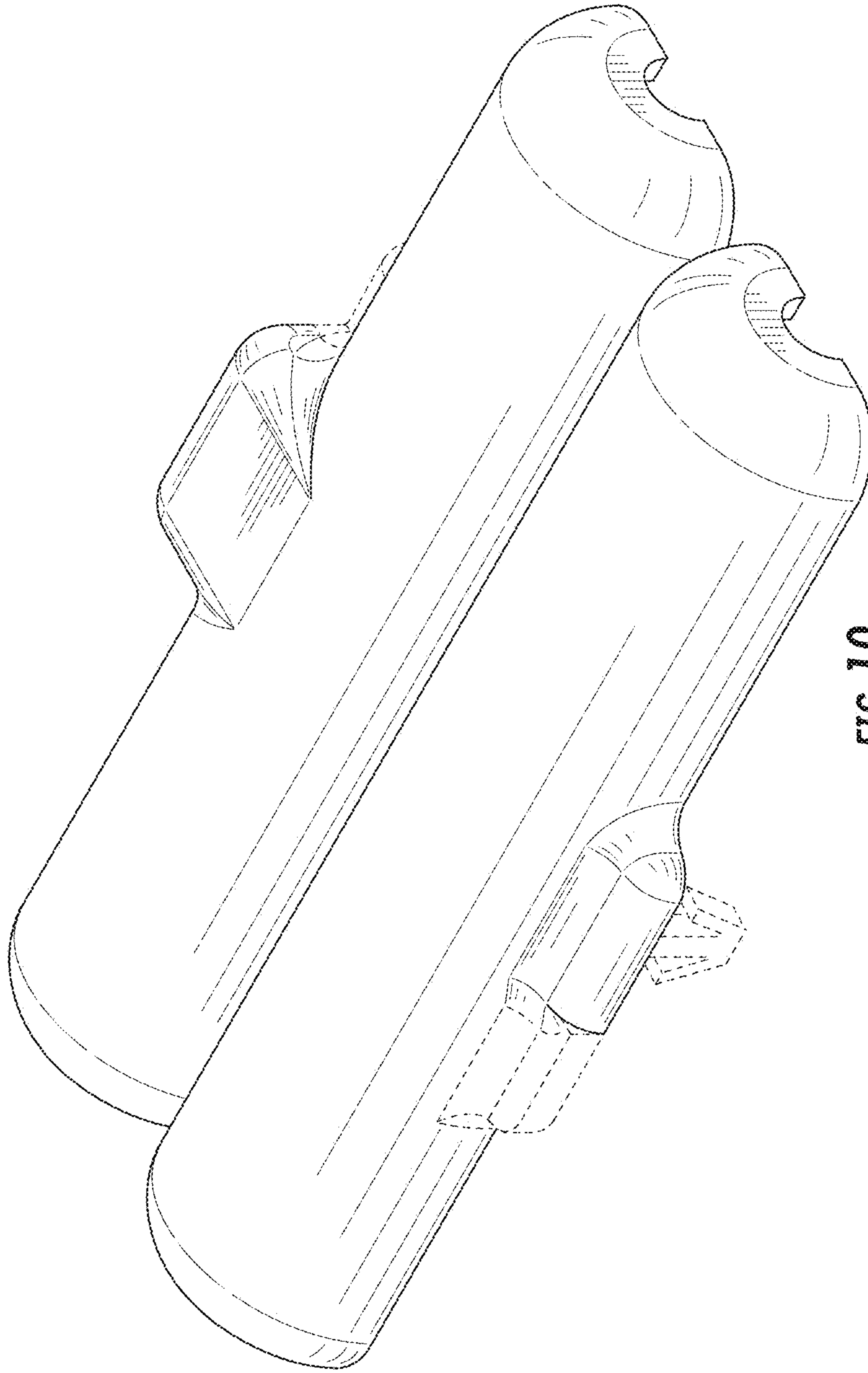


FIG. 10

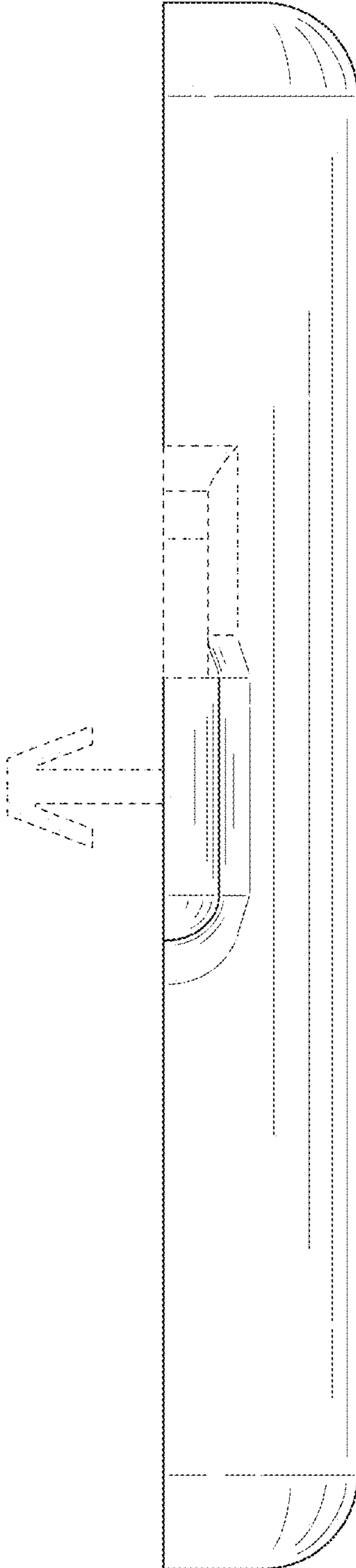


FIG. 11

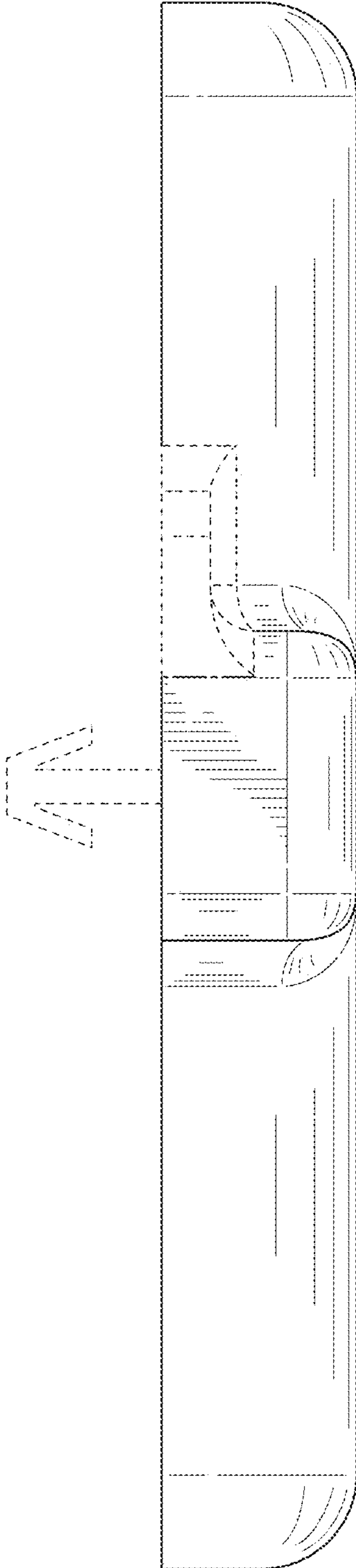


FIG. 12

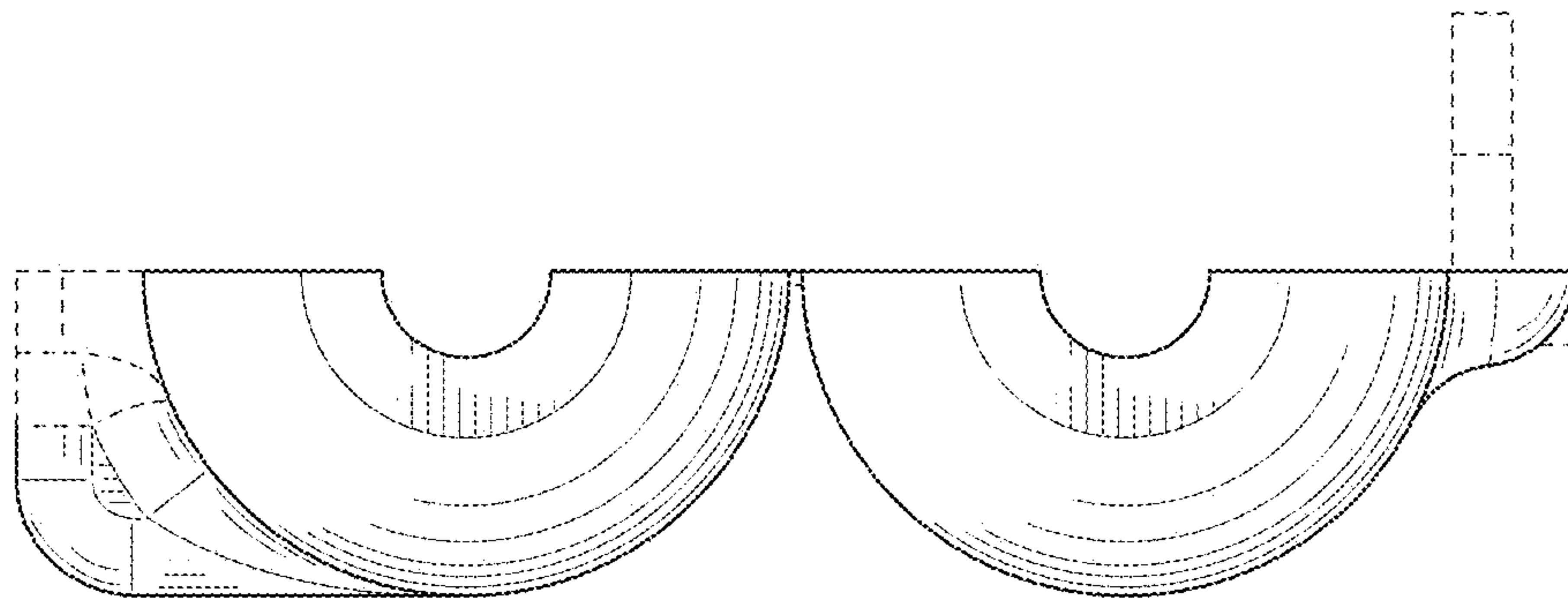


FIG. 13

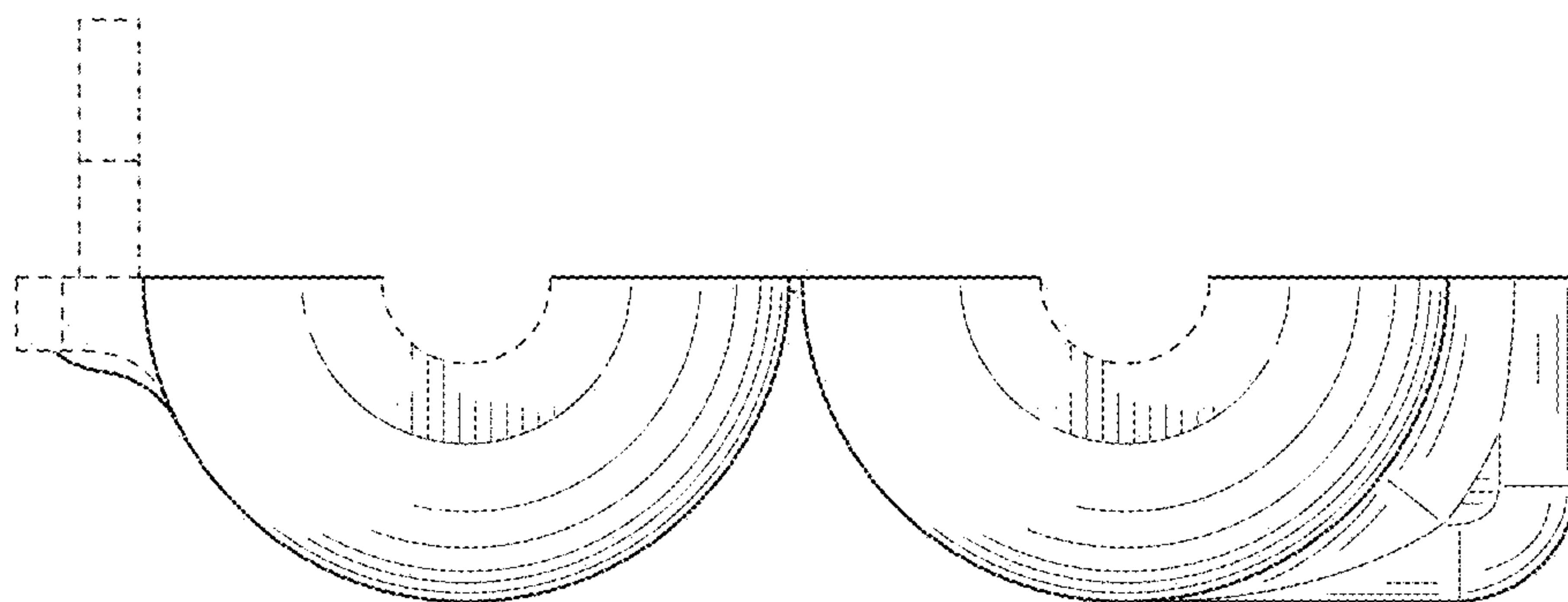


FIG. 14

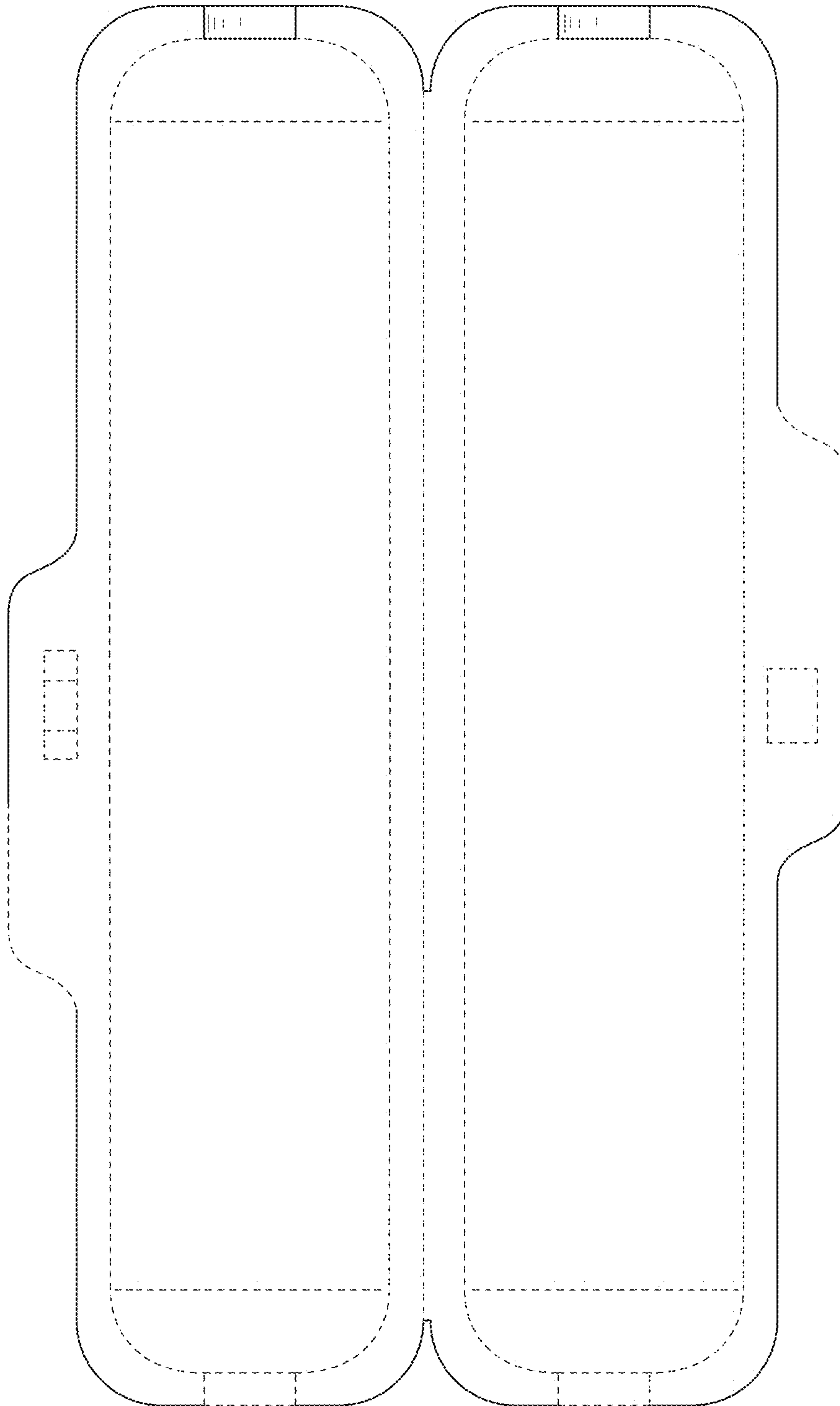


FIG. 15

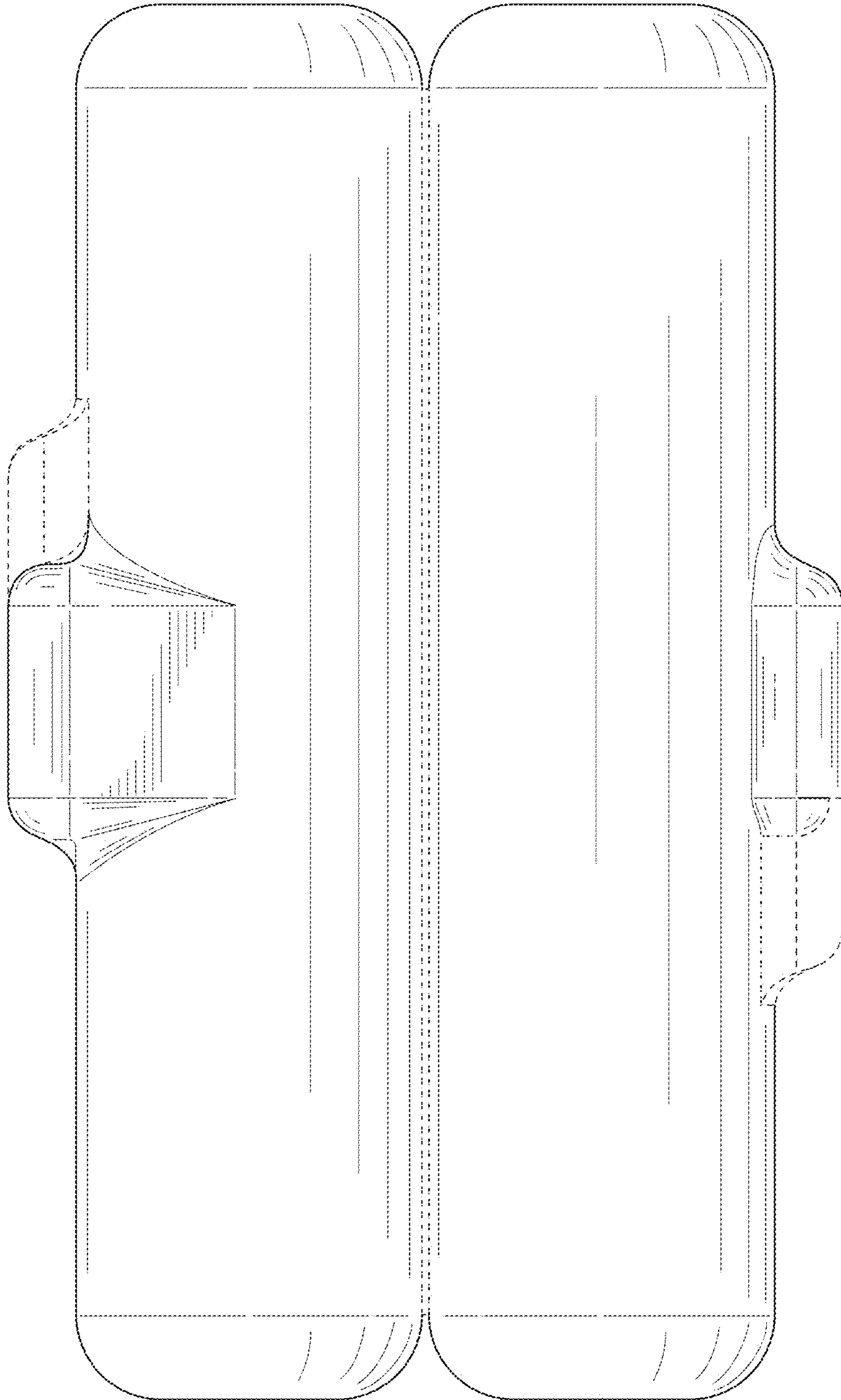
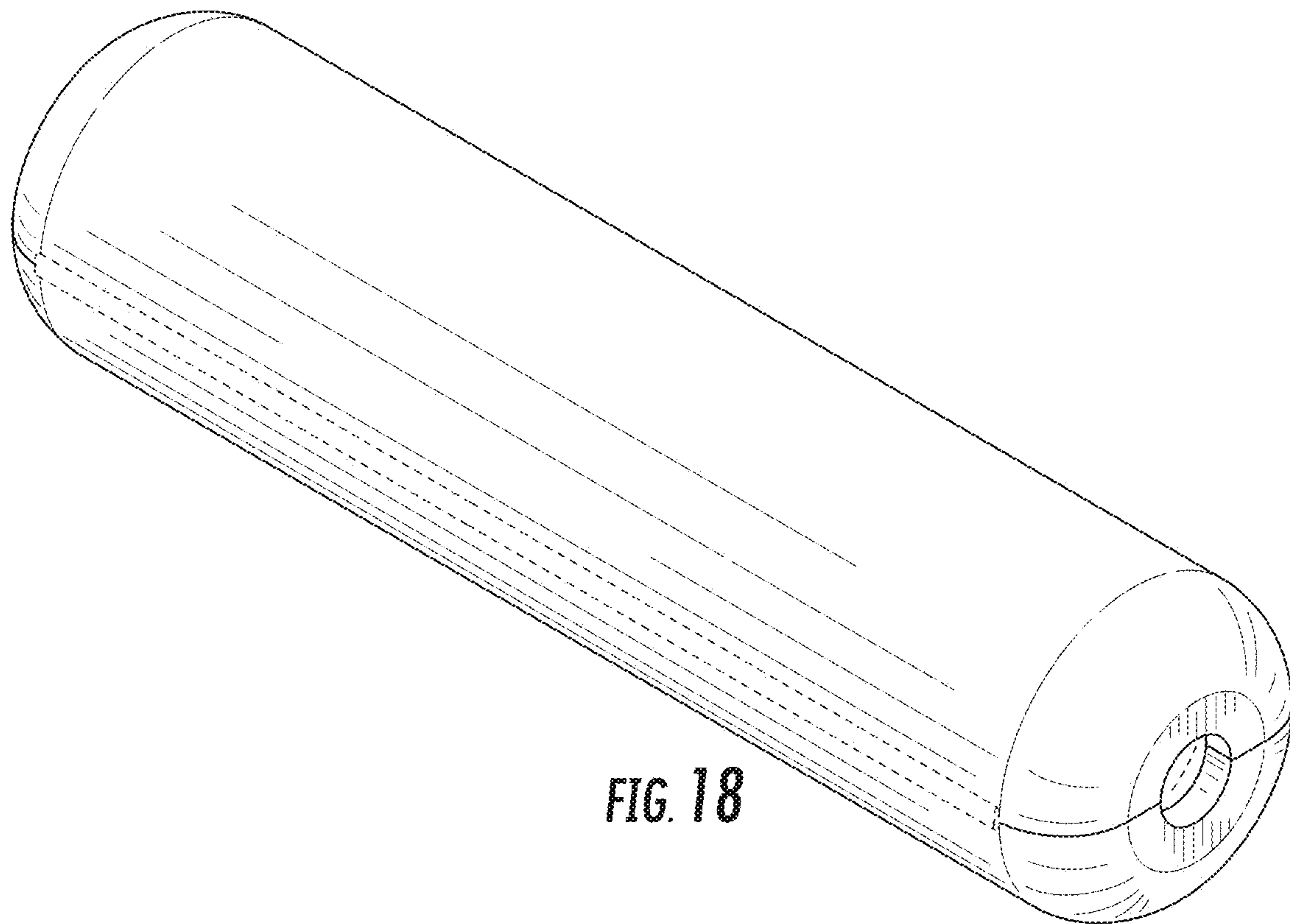
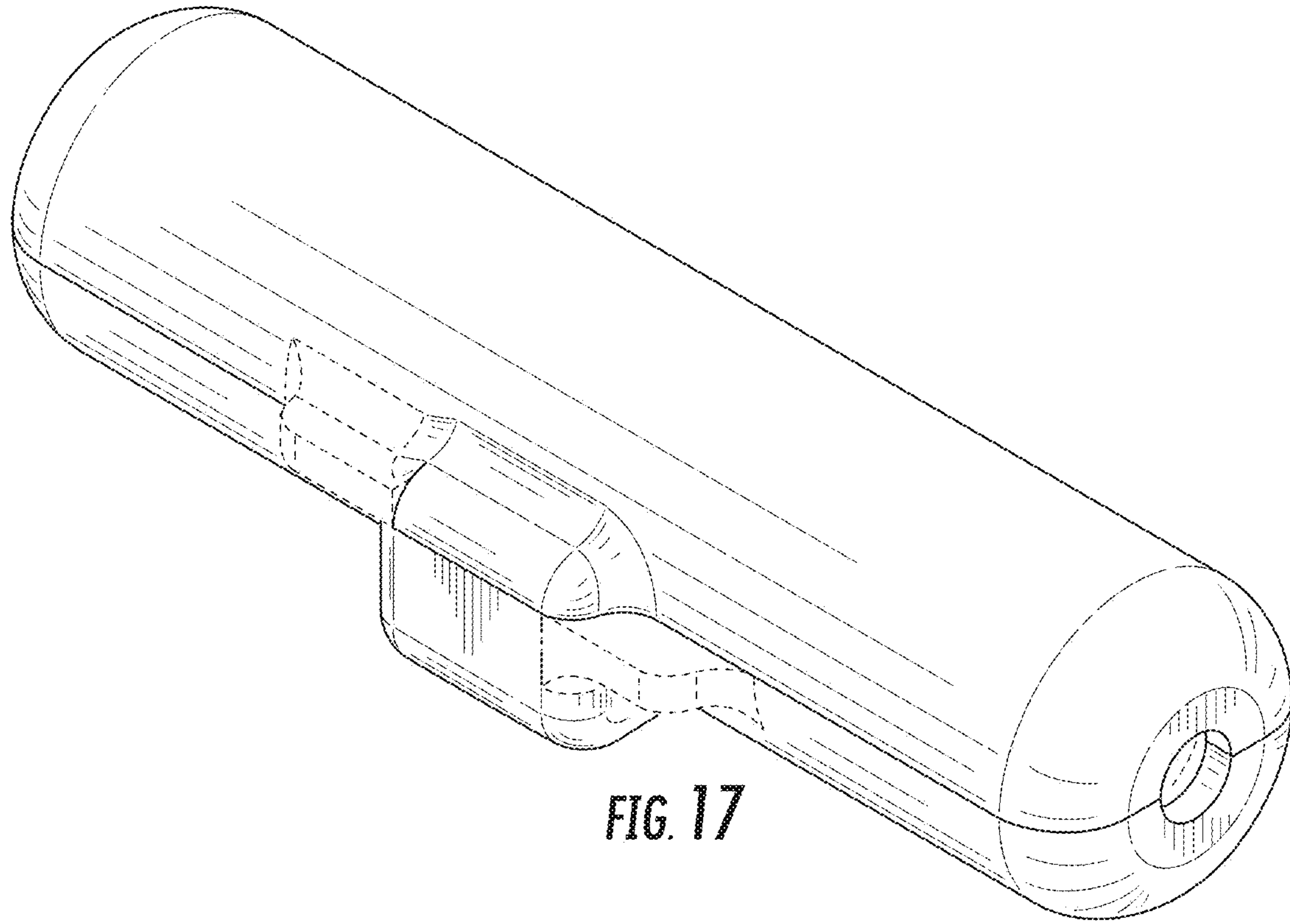


FIG. 16



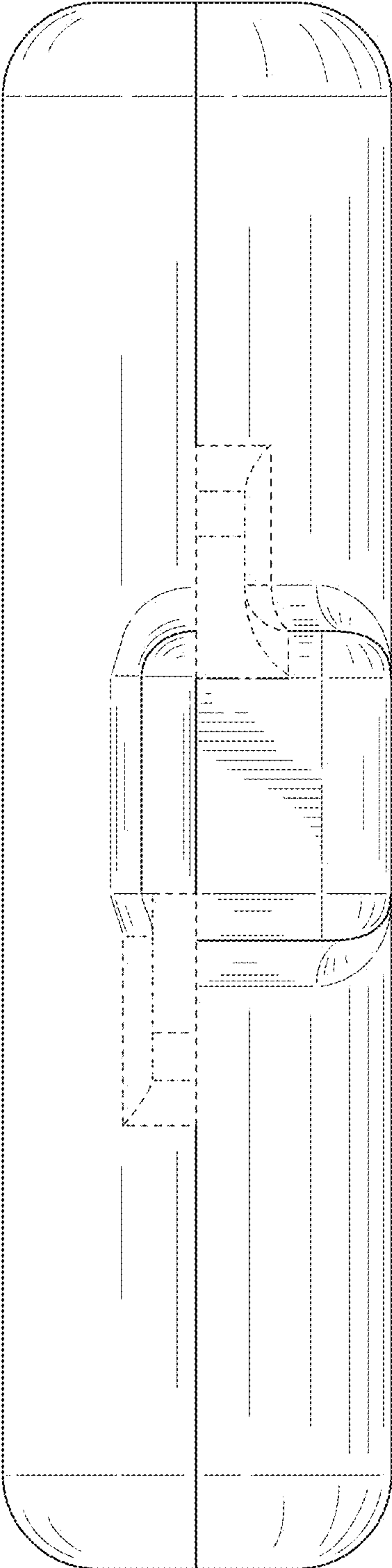


FIG. 19

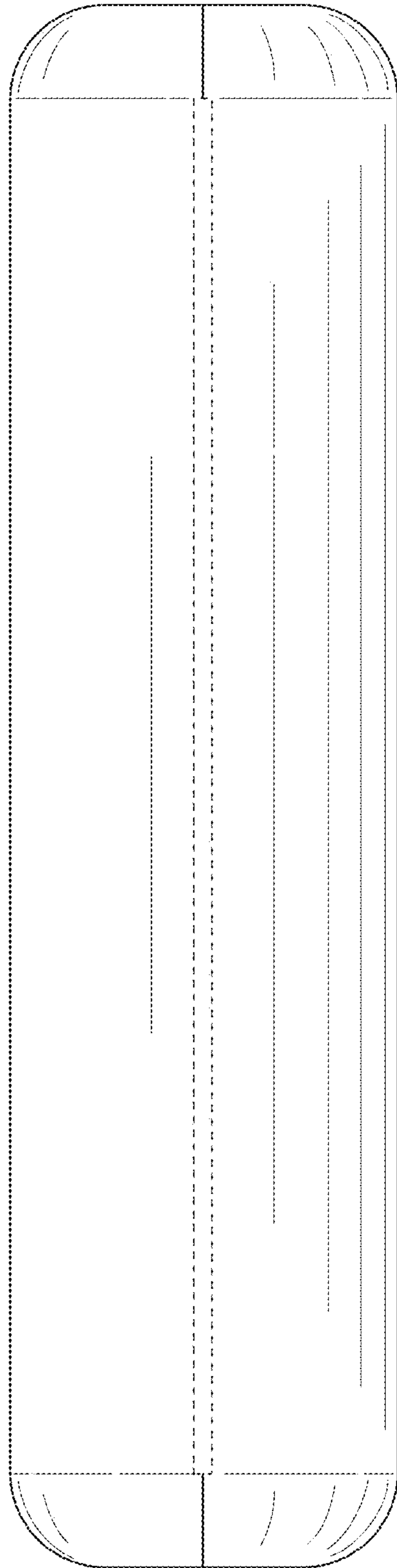


FIG. 20

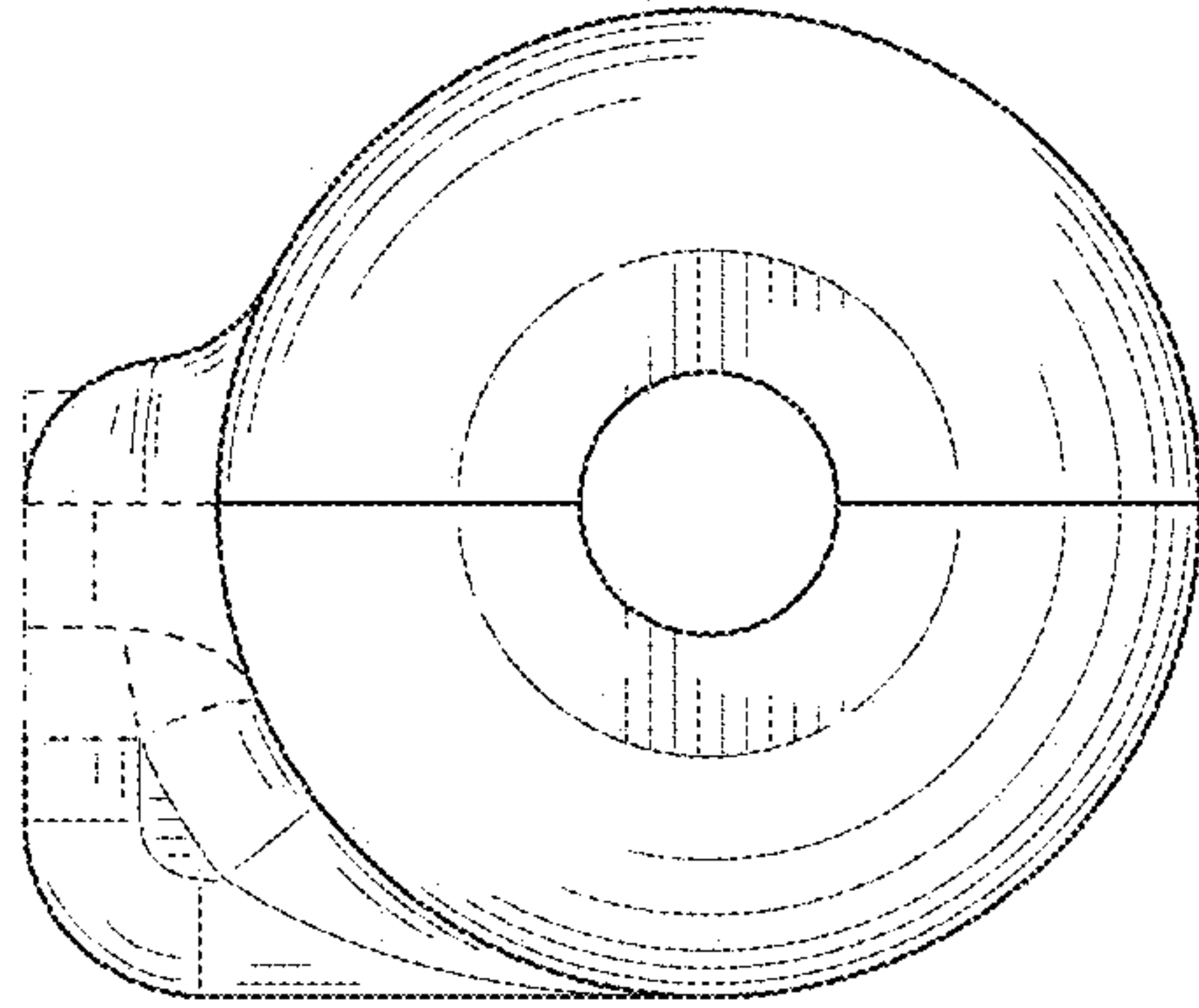


FIG. 21

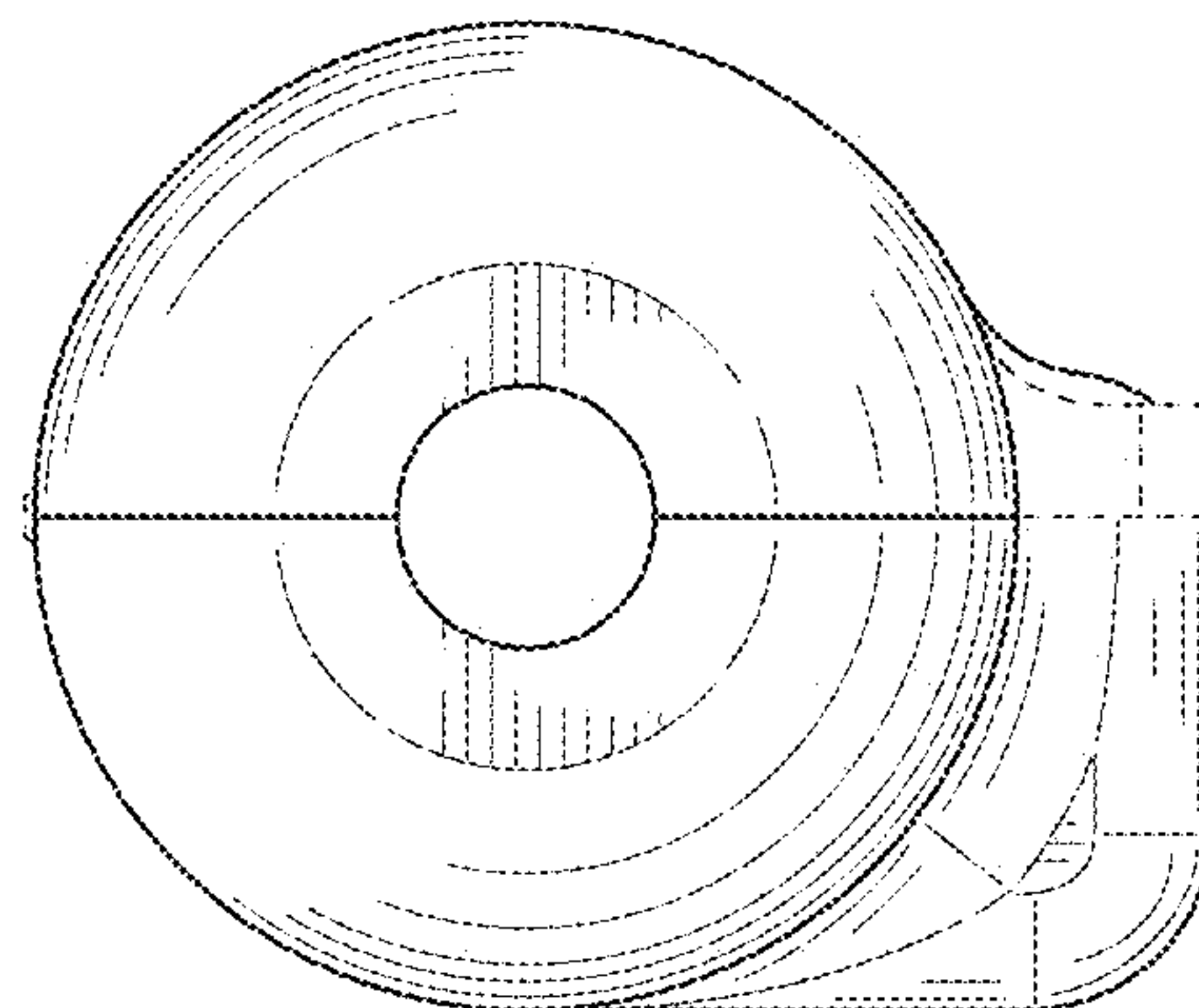


FIG. 22

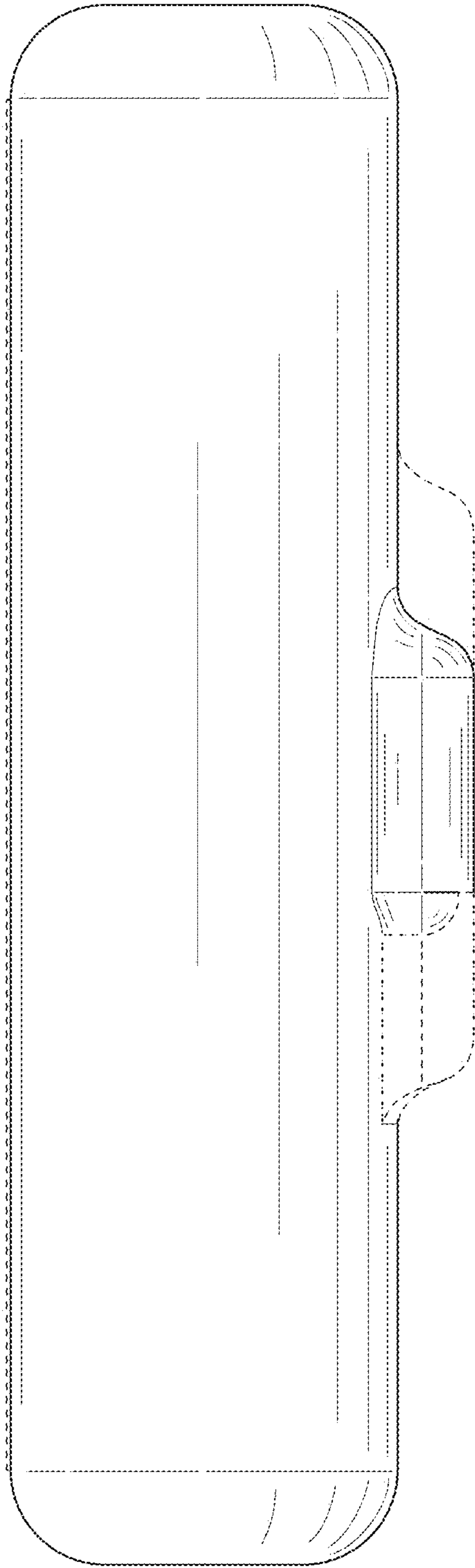


FIG. 23

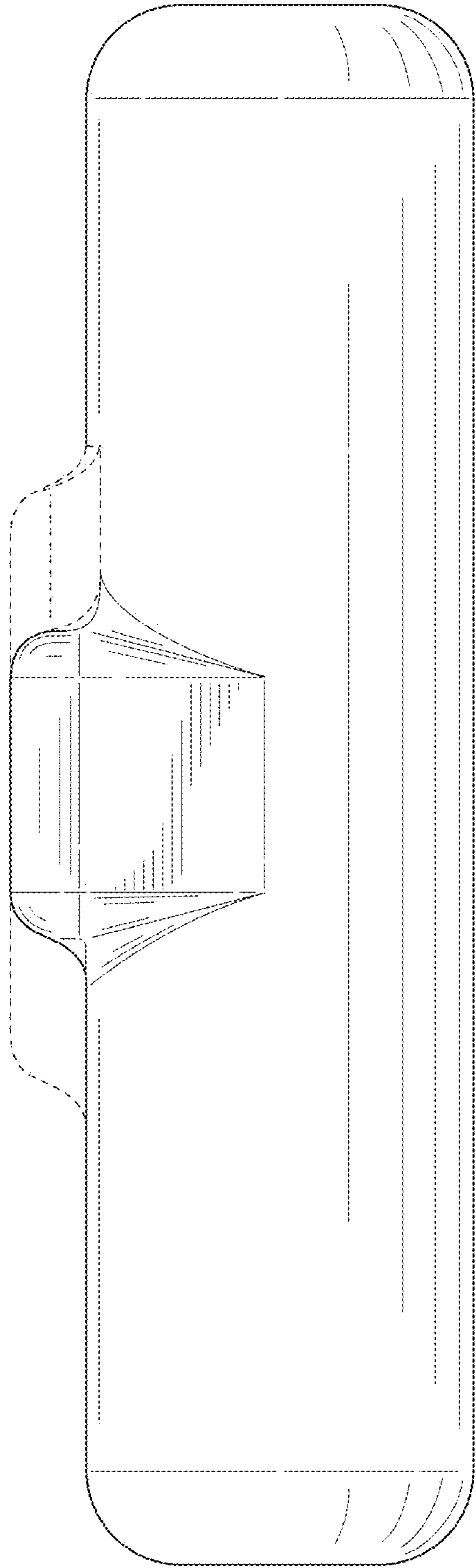


FIG. 24

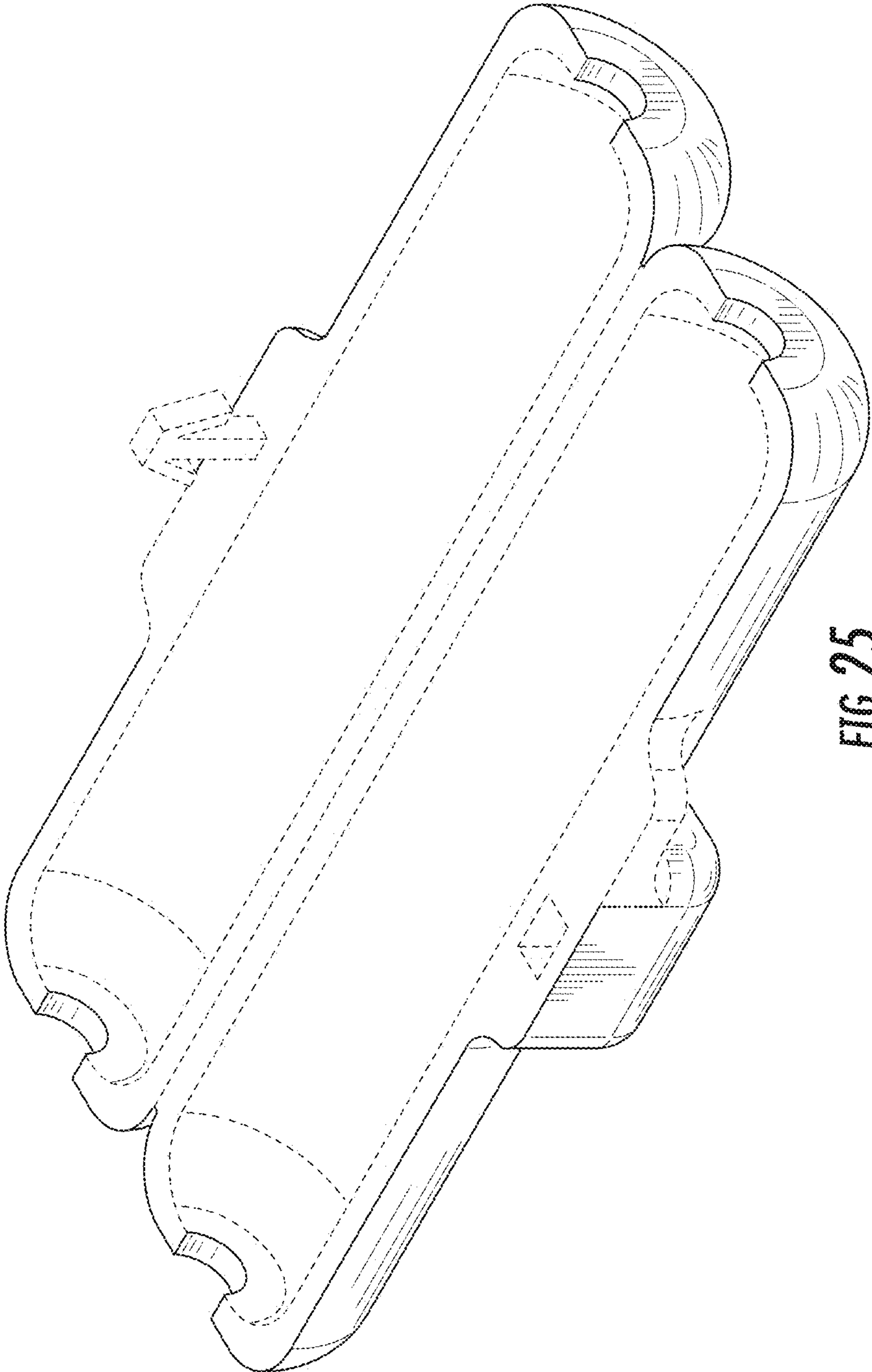


FIG. 25

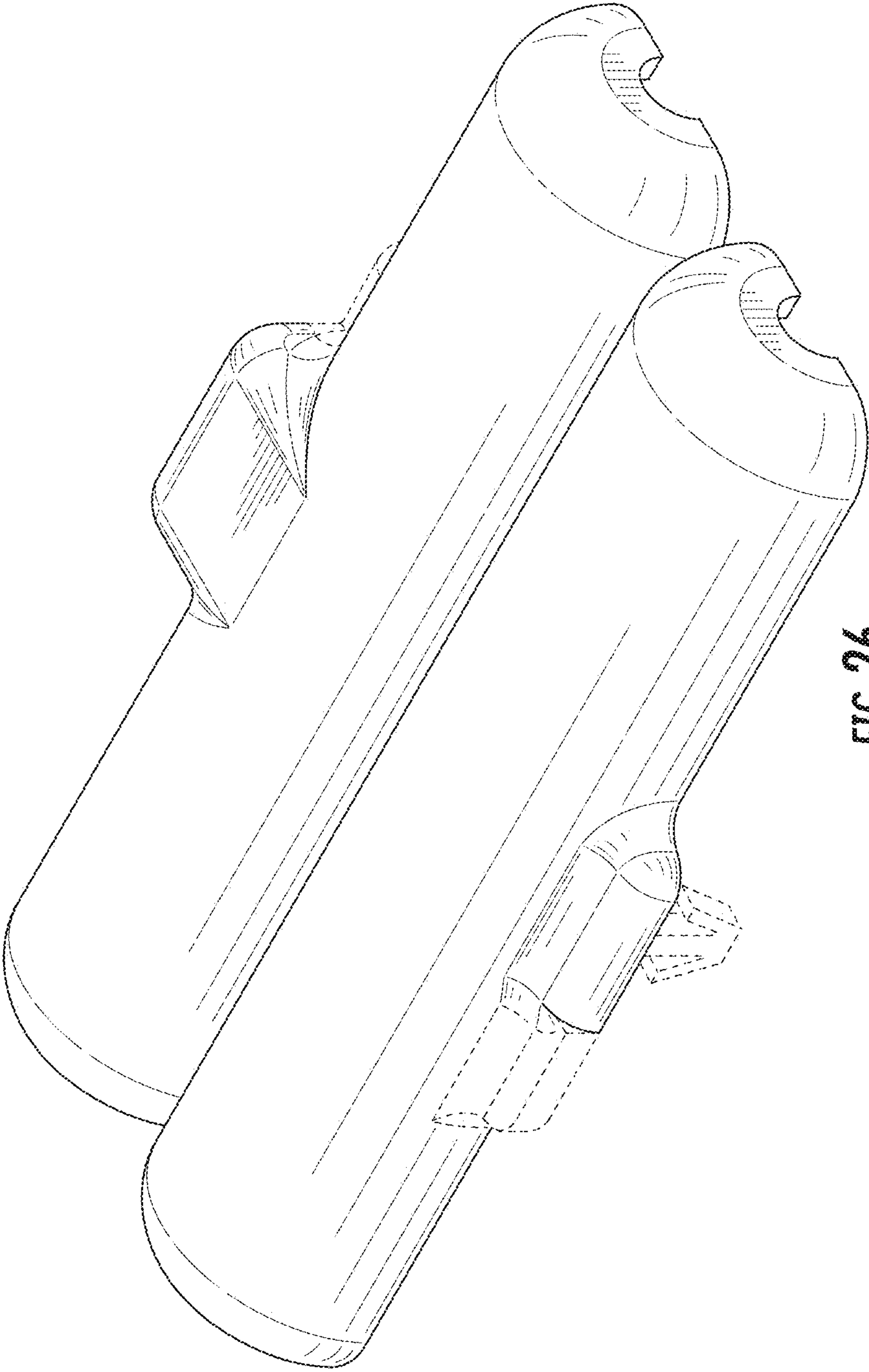


FIG. 26

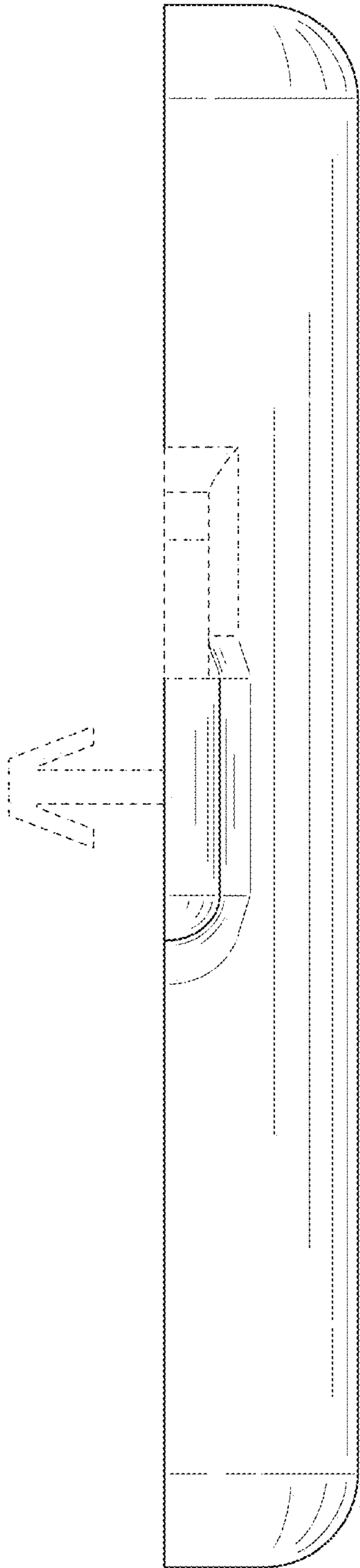


FIG. 27

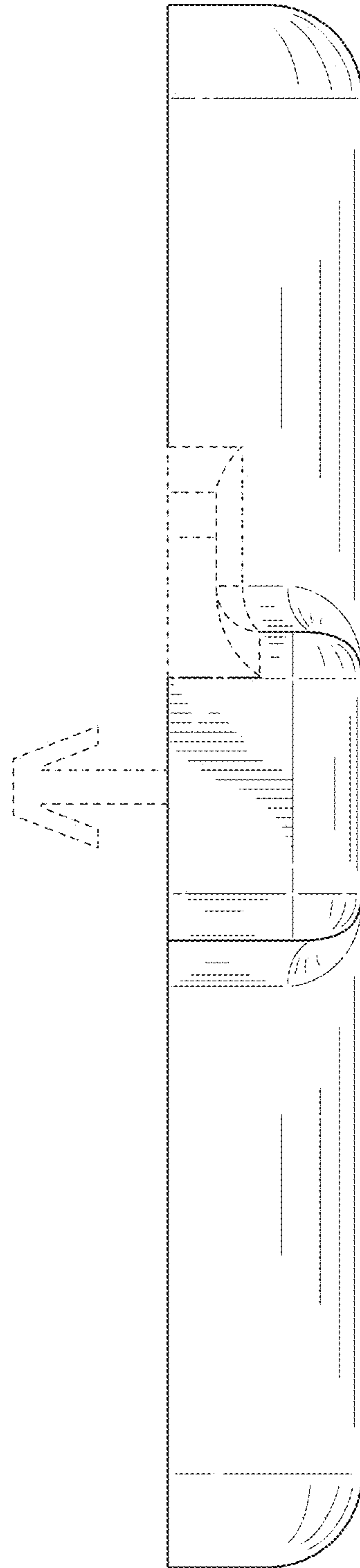


FIG. 28

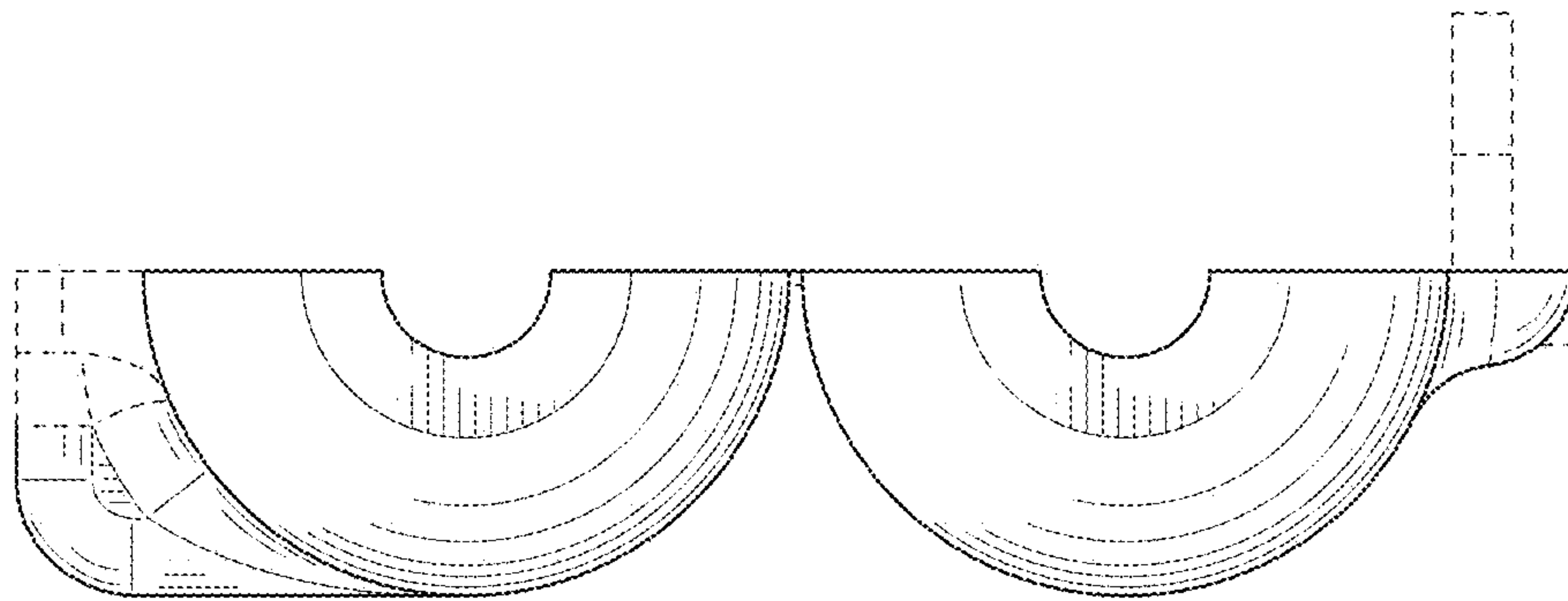


FIG. 29

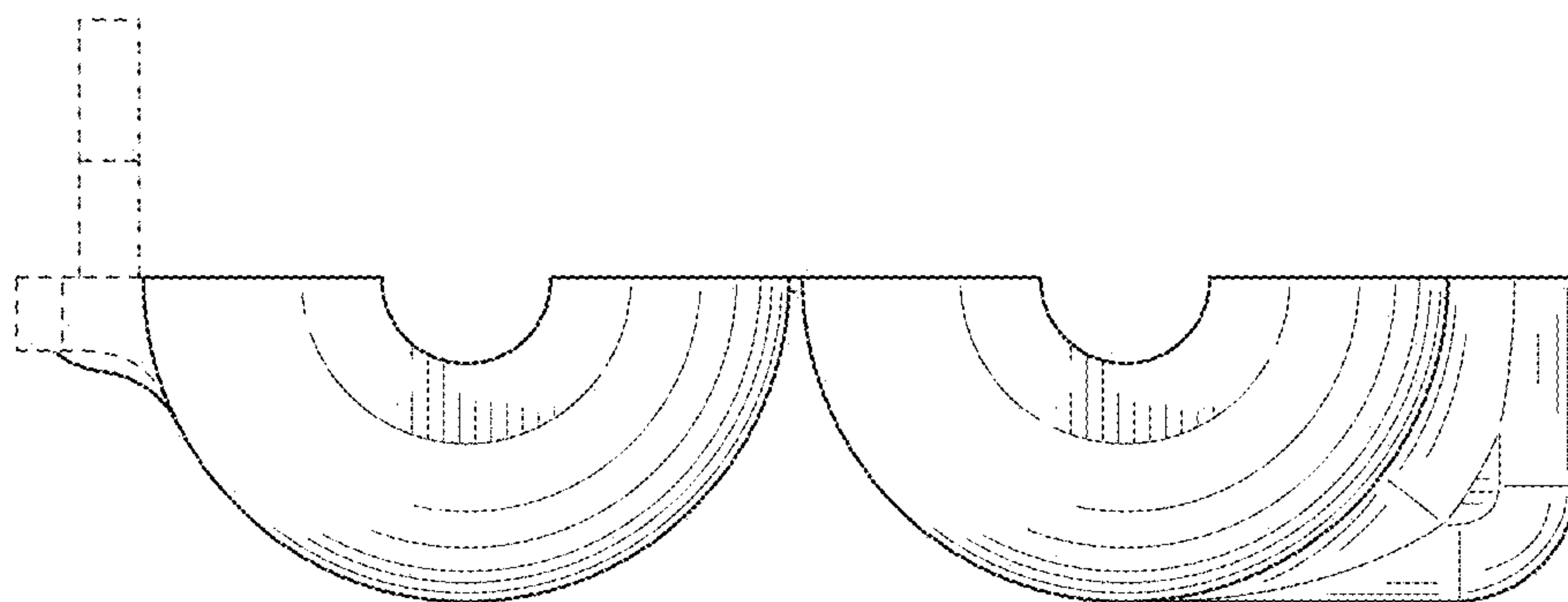


FIG. 30

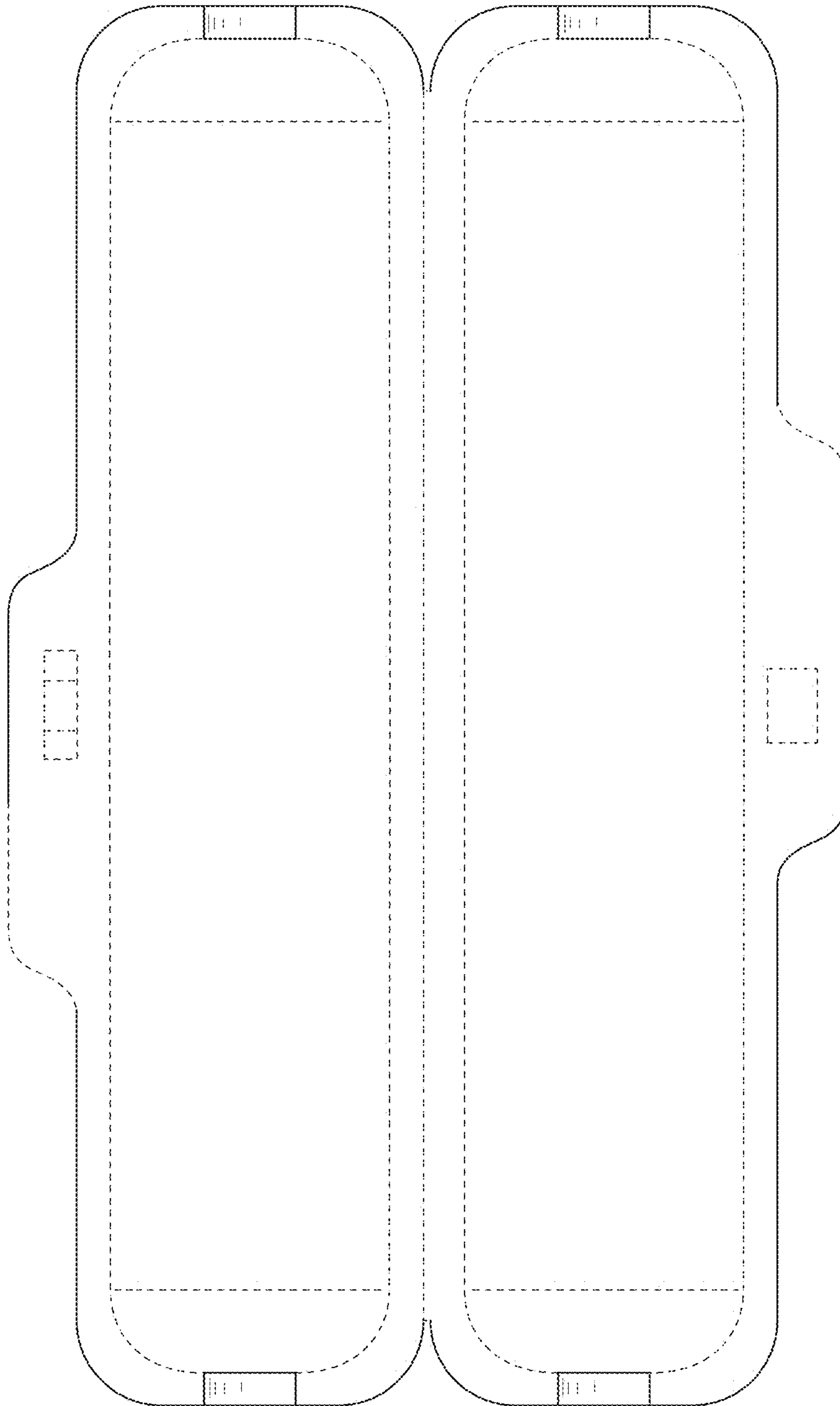


FIG. 31

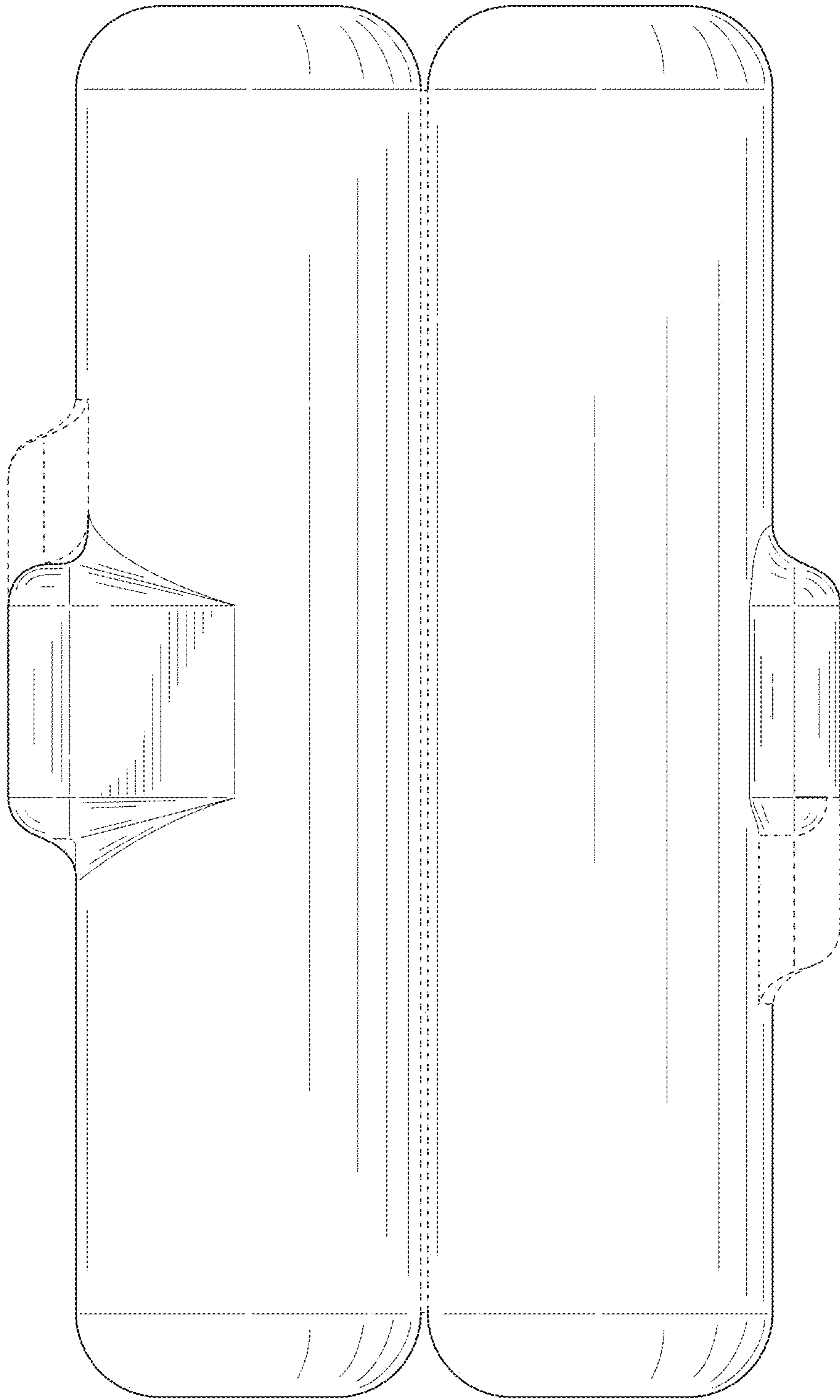


FIG. 32

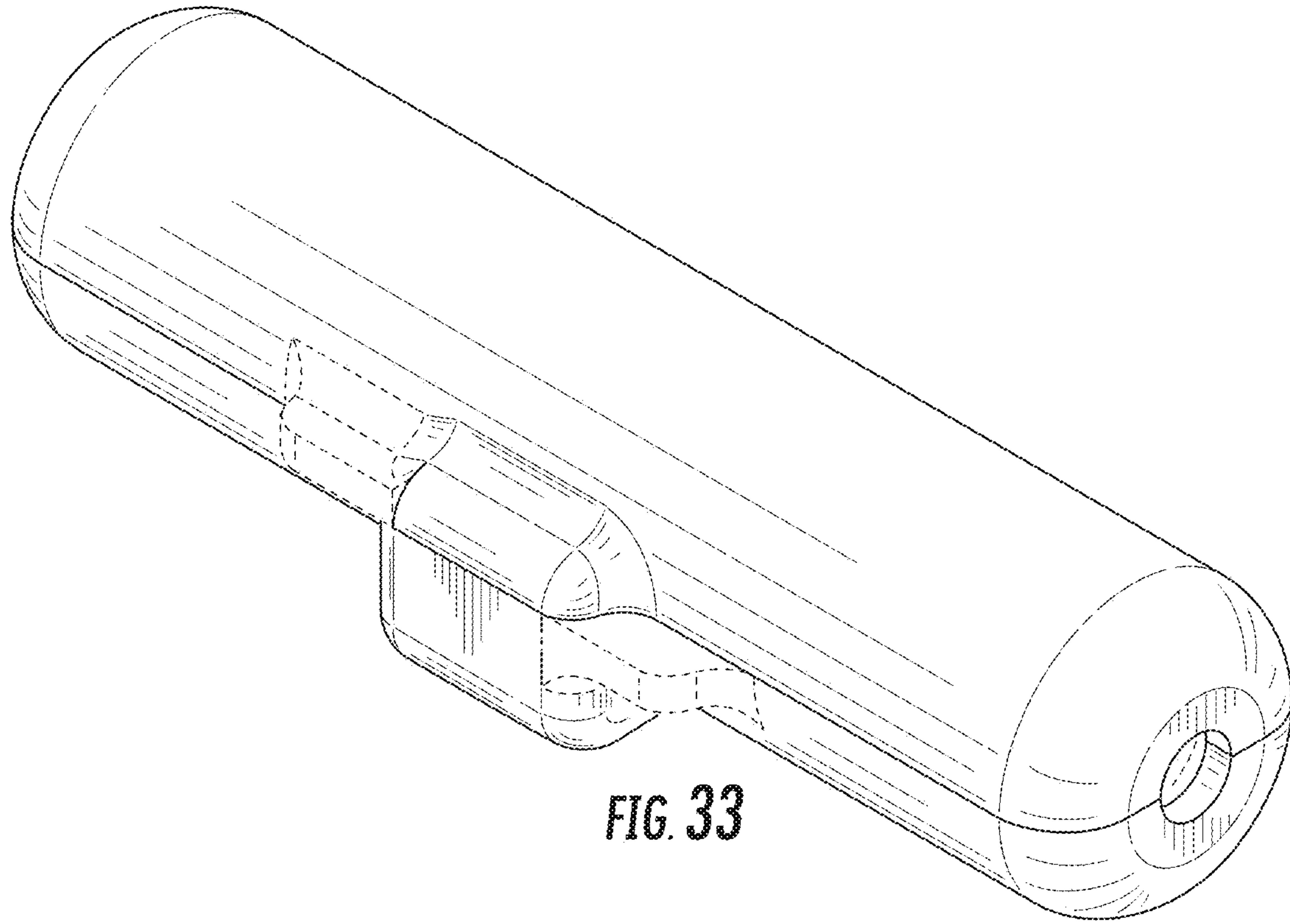


FIG. 33

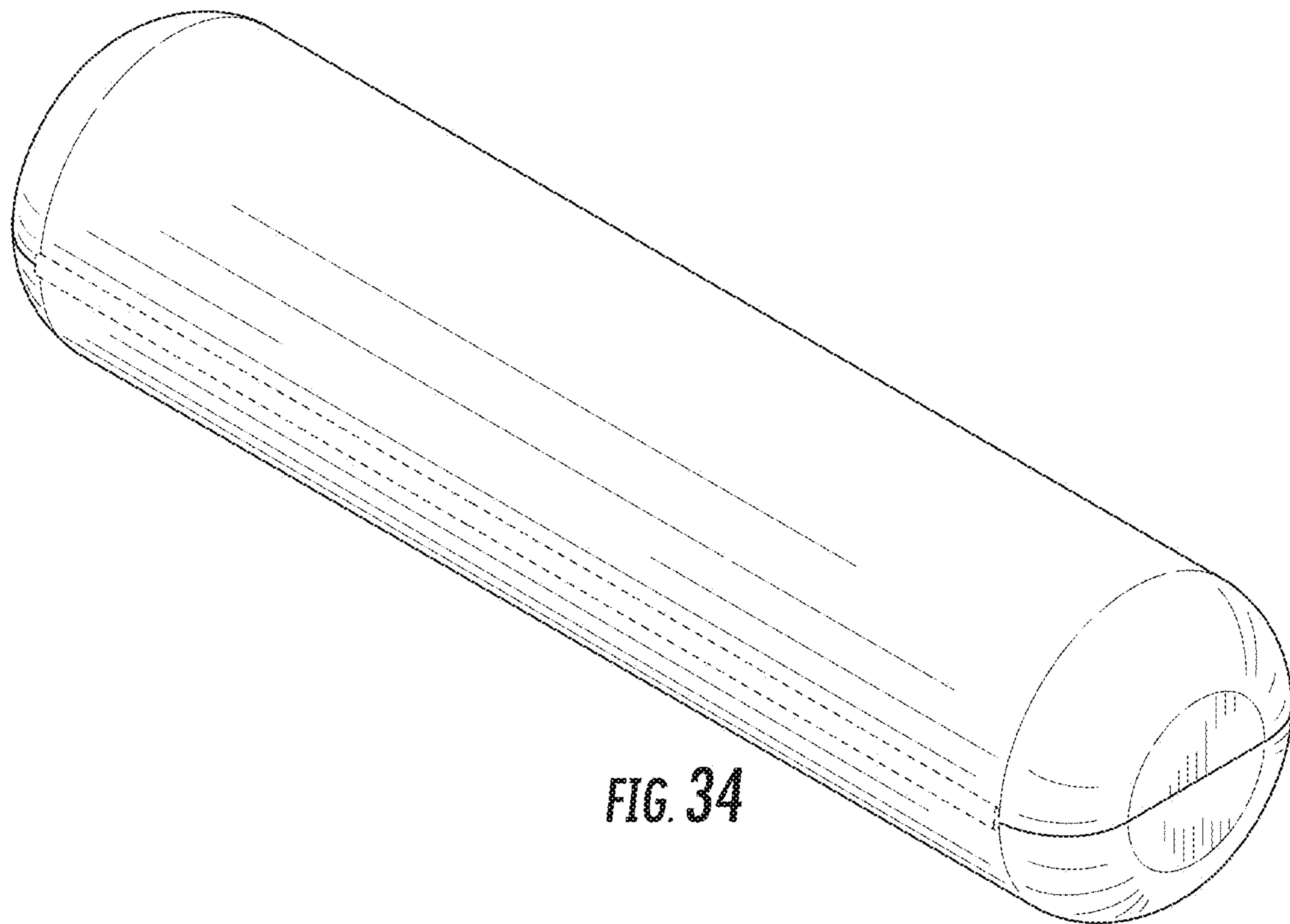


FIG. 34

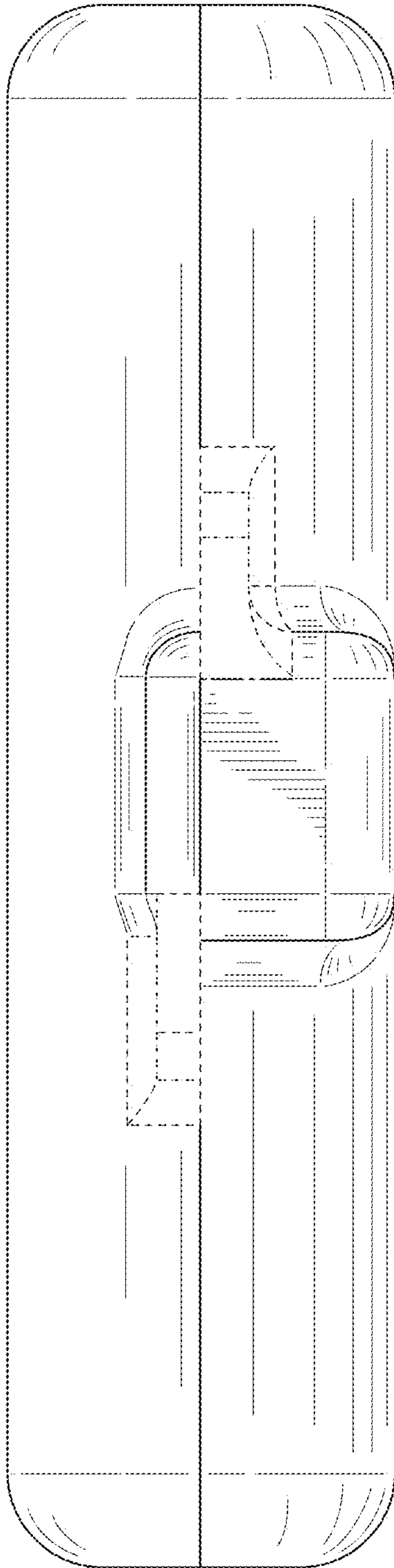


FIG. 35

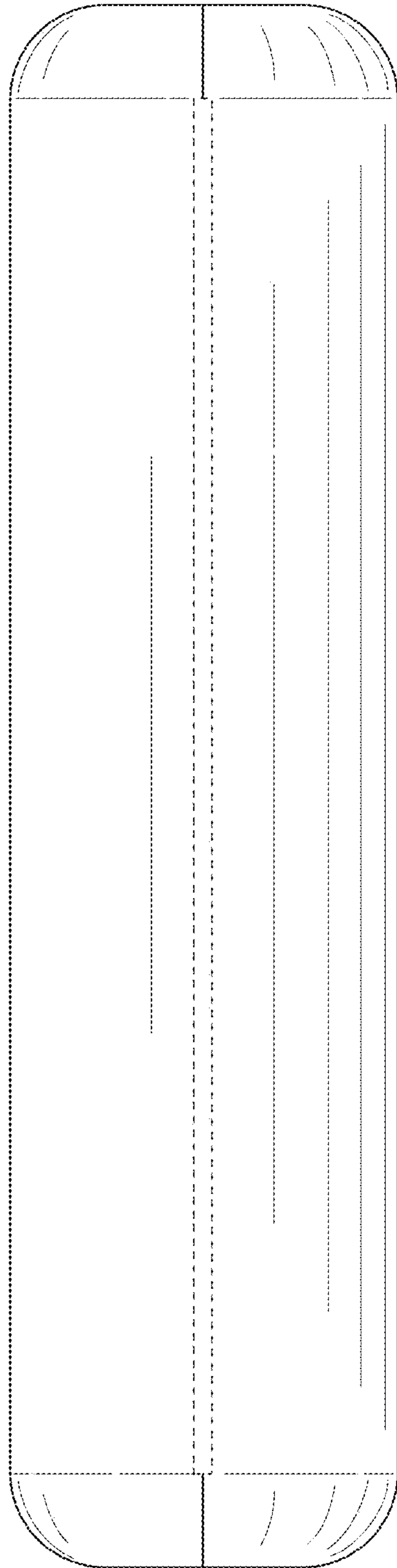


FIG. 36

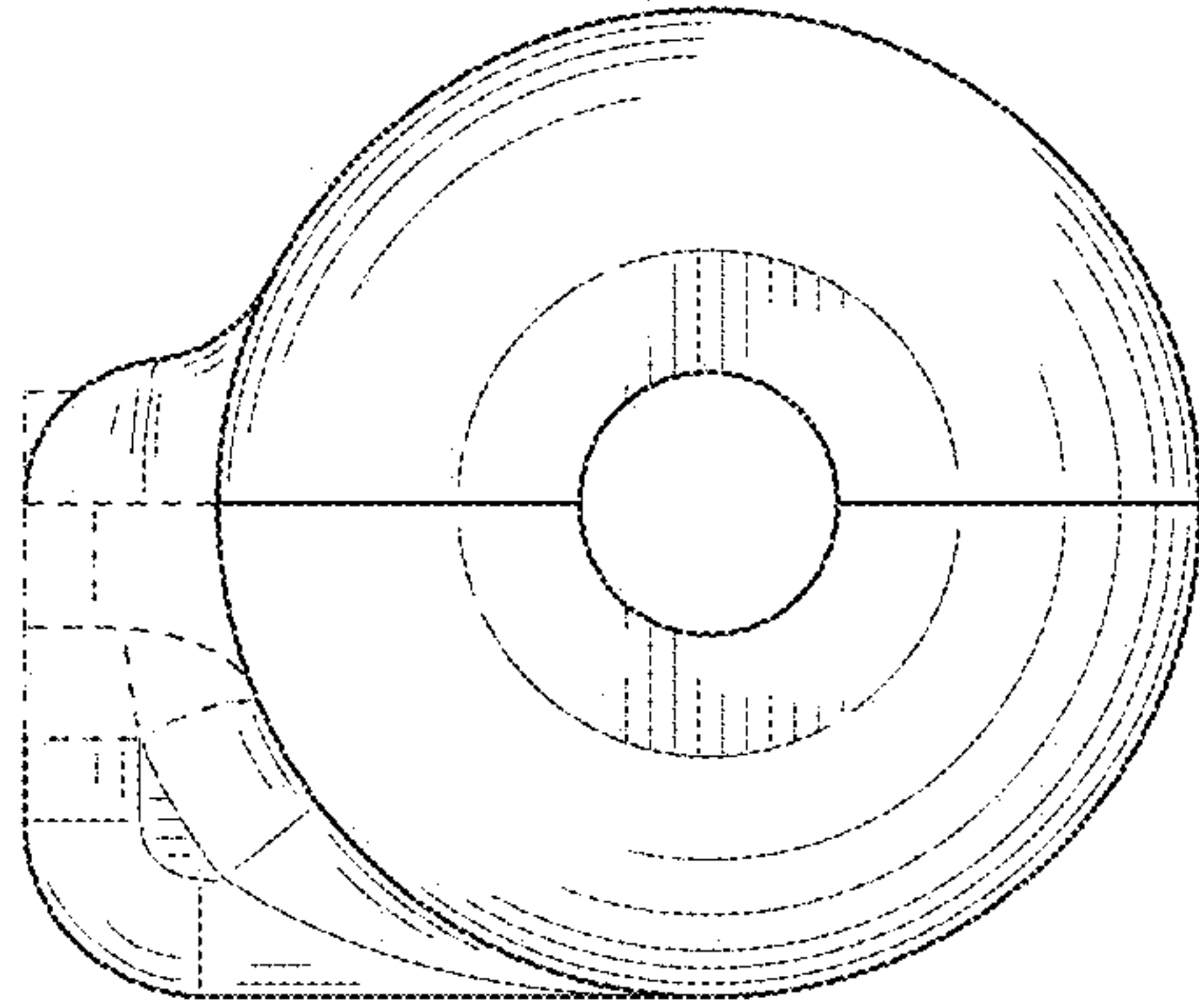


FIG. 37

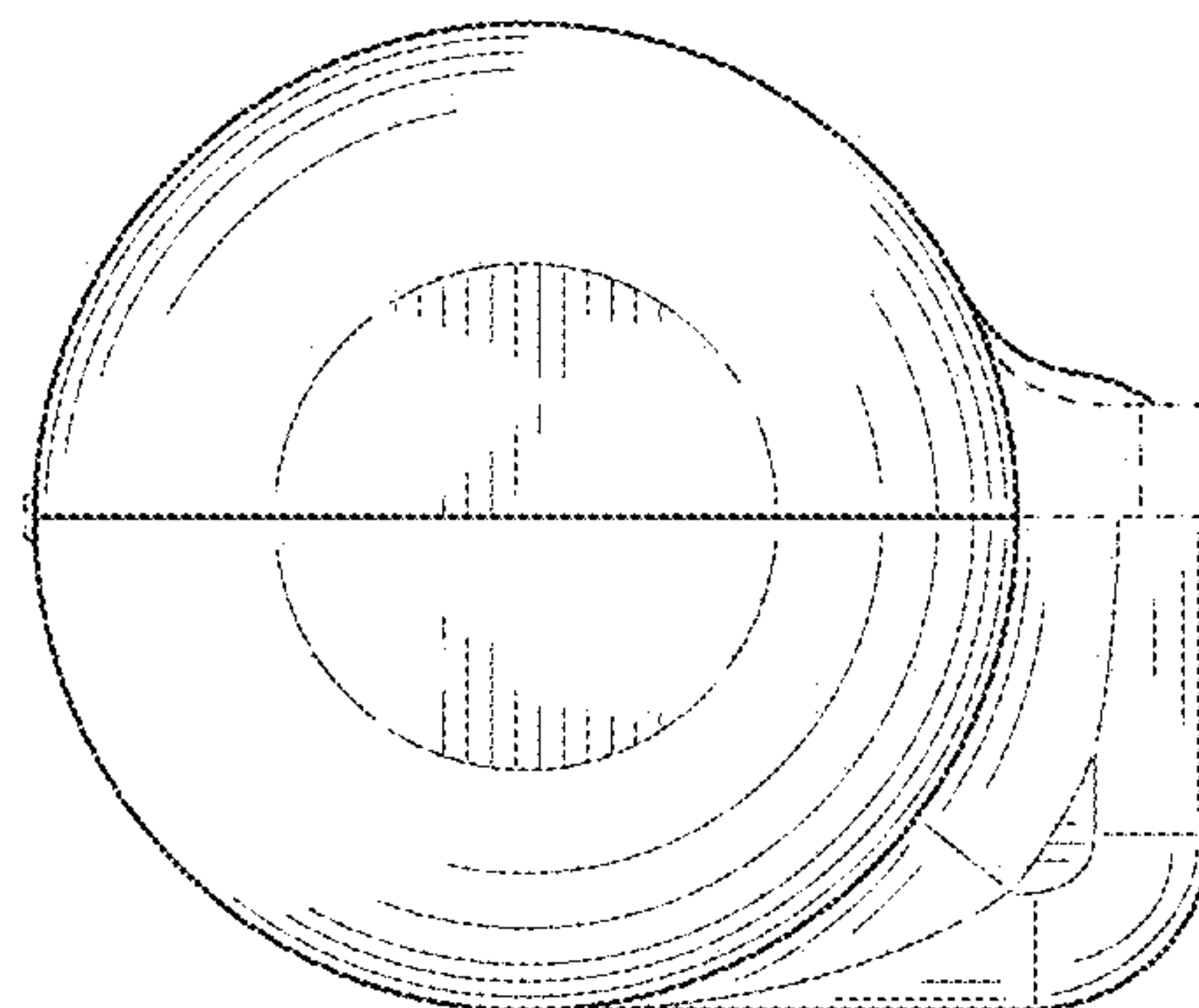


FIG. 38

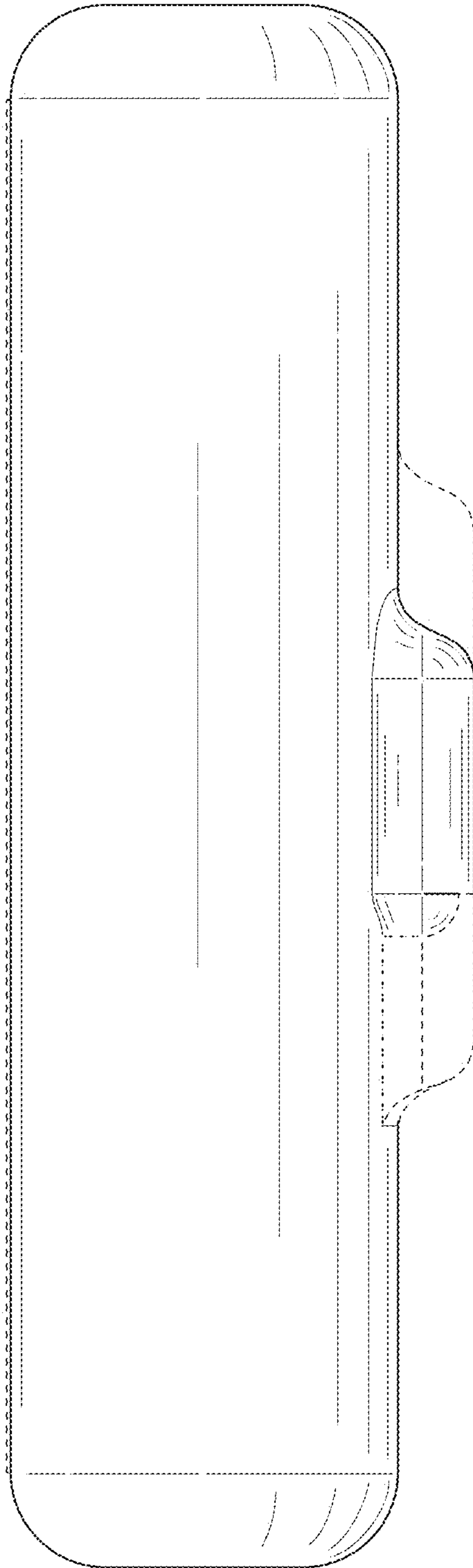


FIG. 39

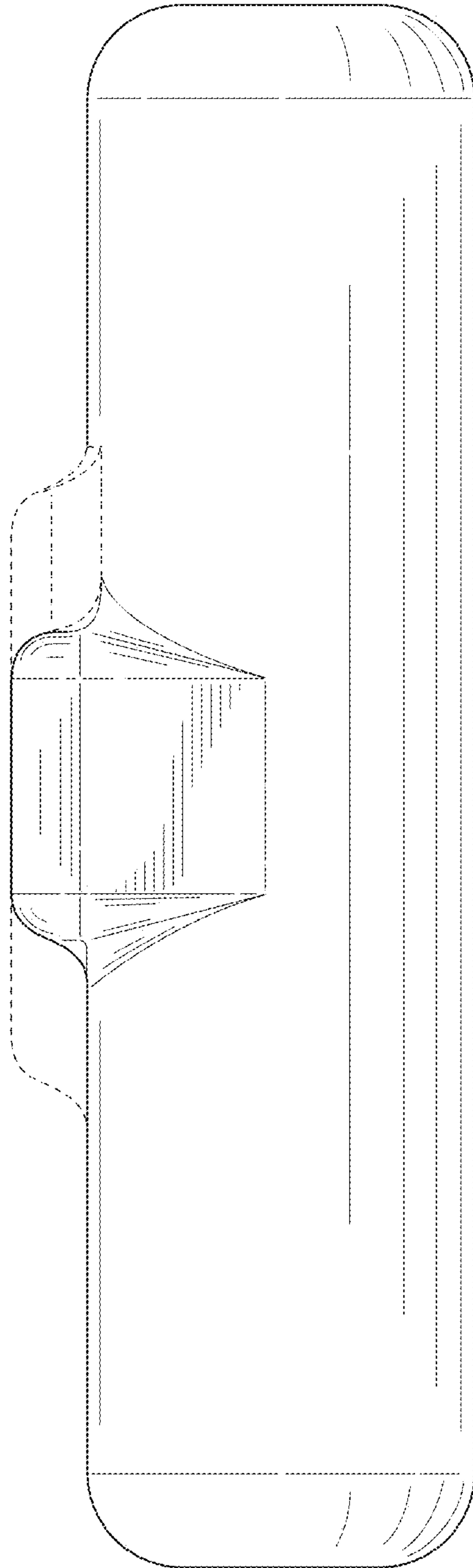


FIG. 40

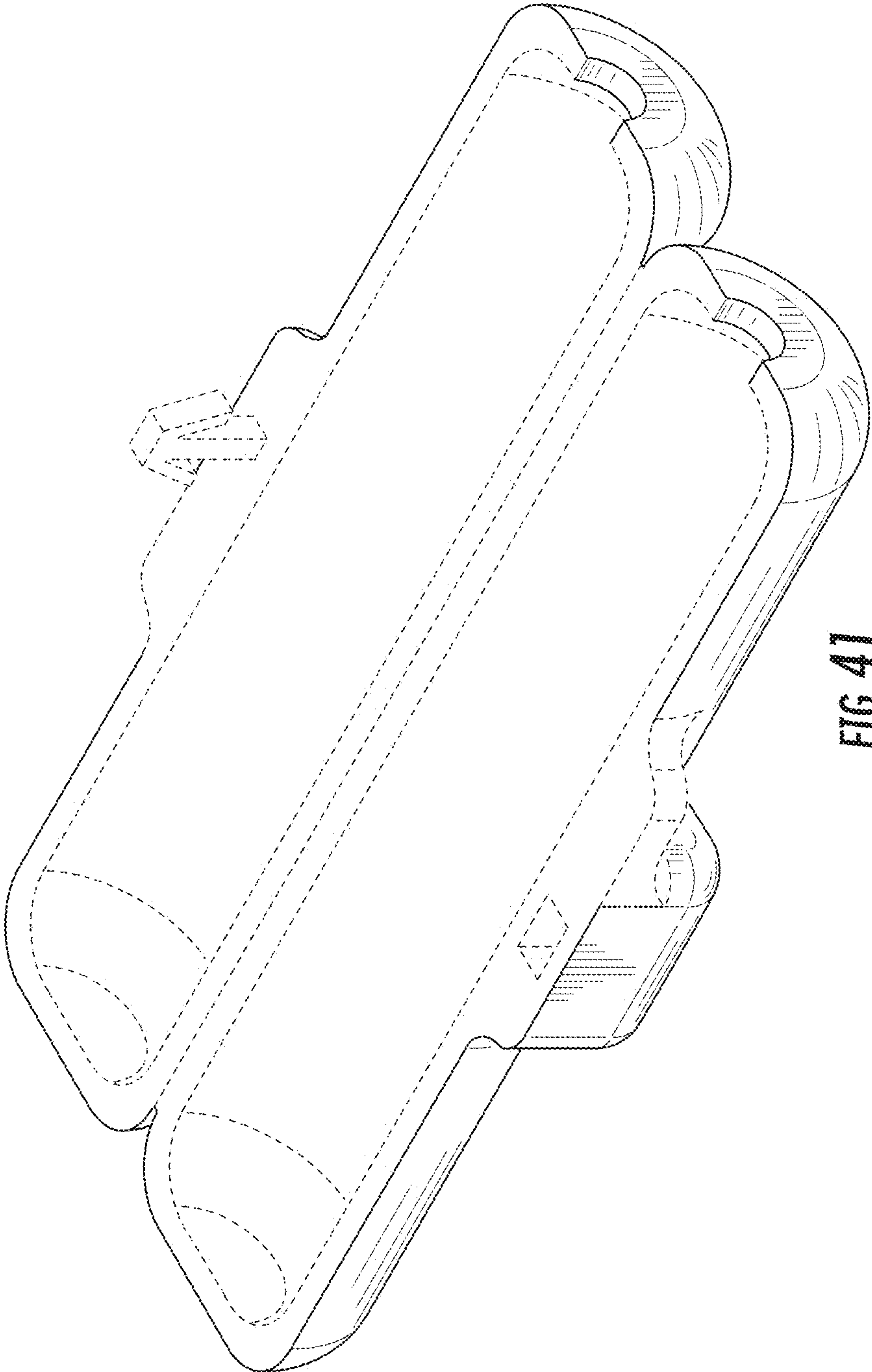


FIG. 41

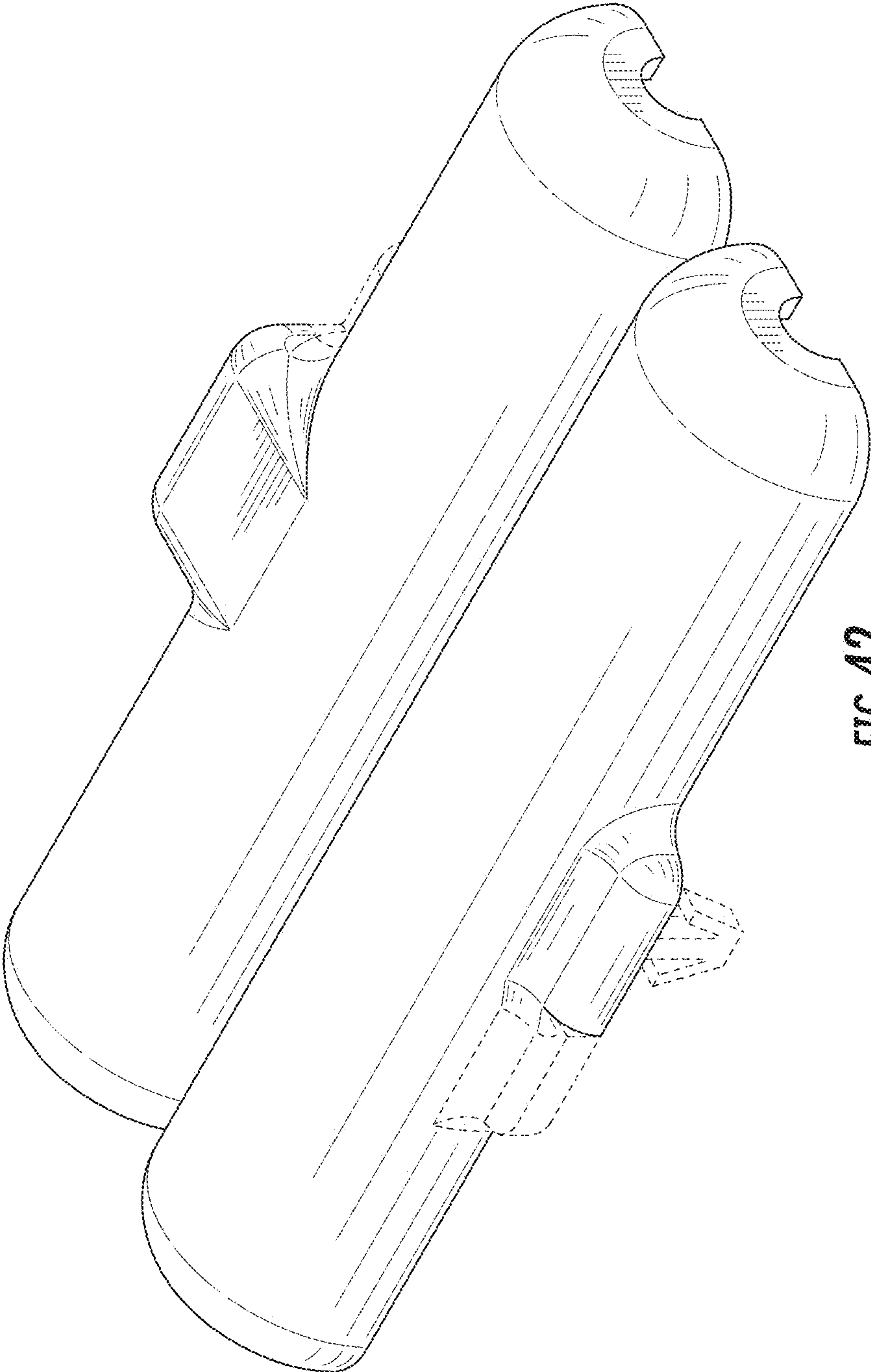


FIG. 42

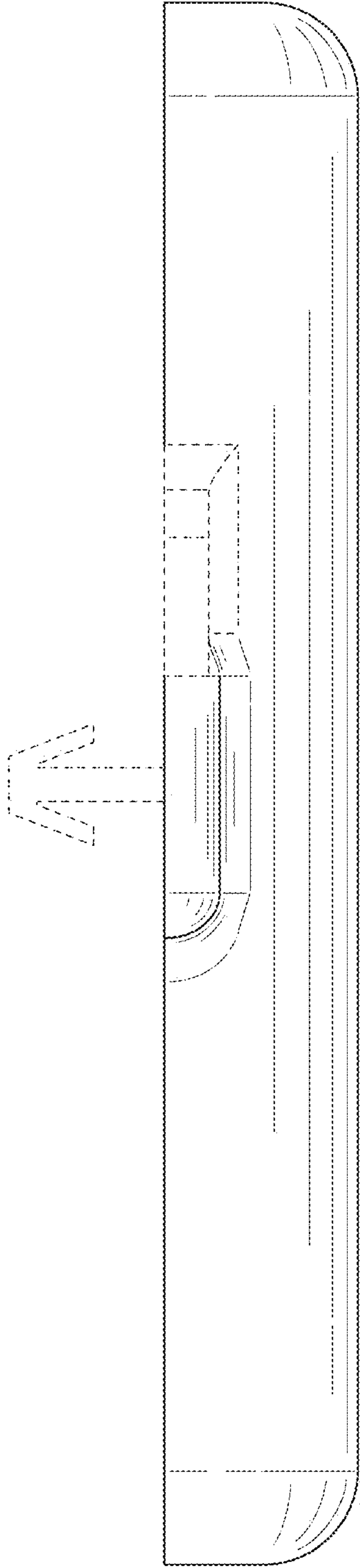


FIG. 43

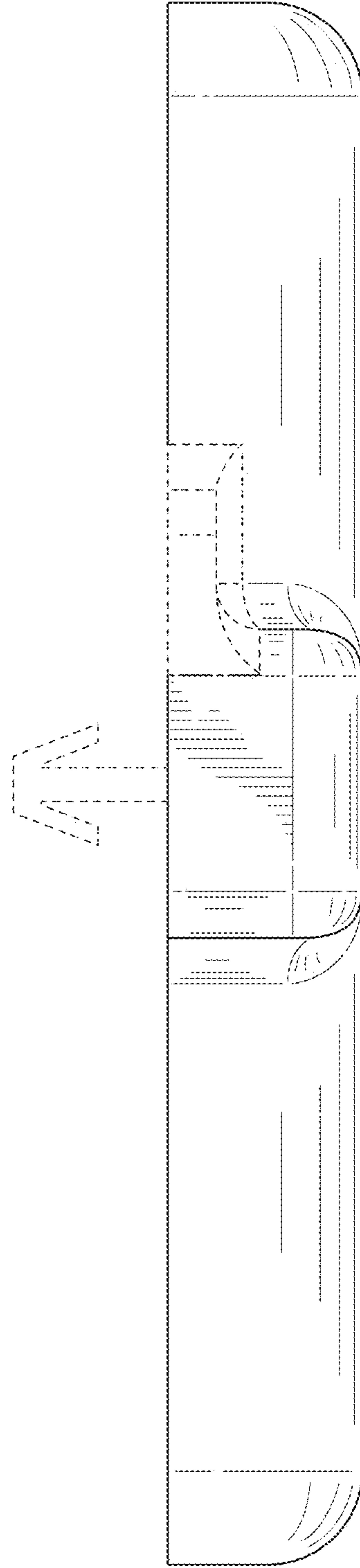


FIG. 44

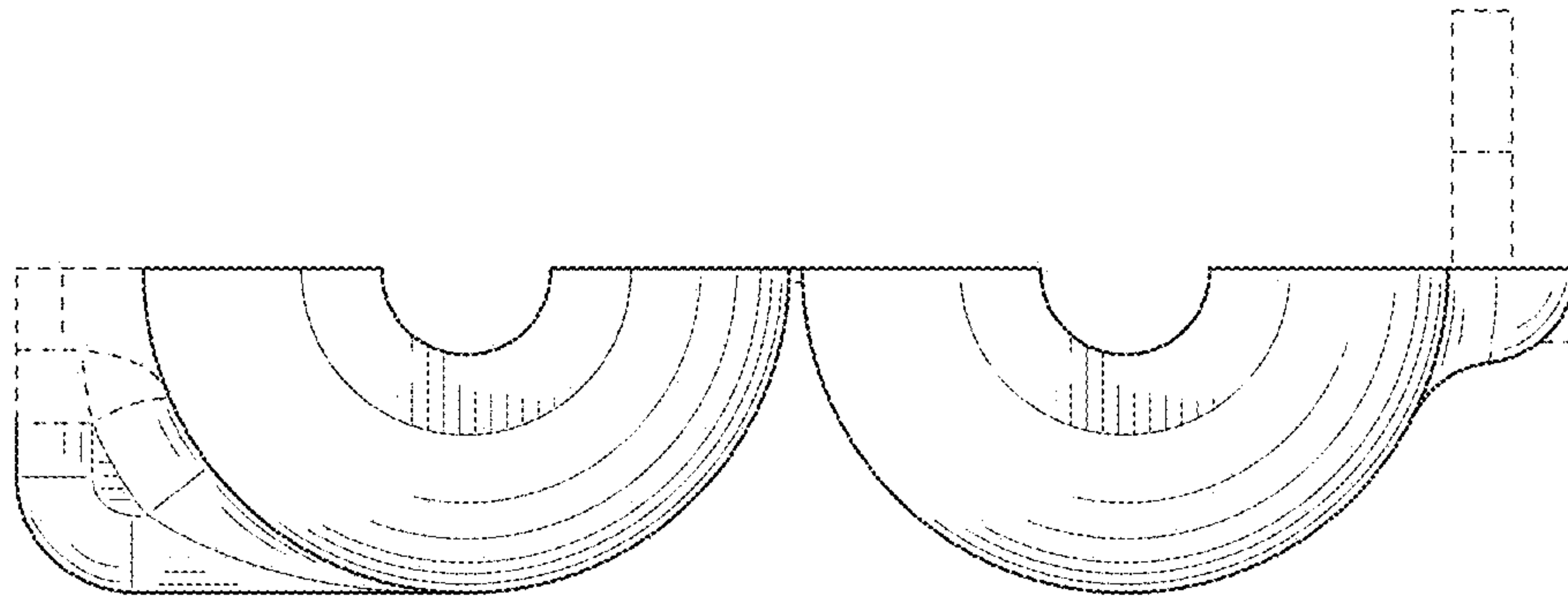


FIG. 45

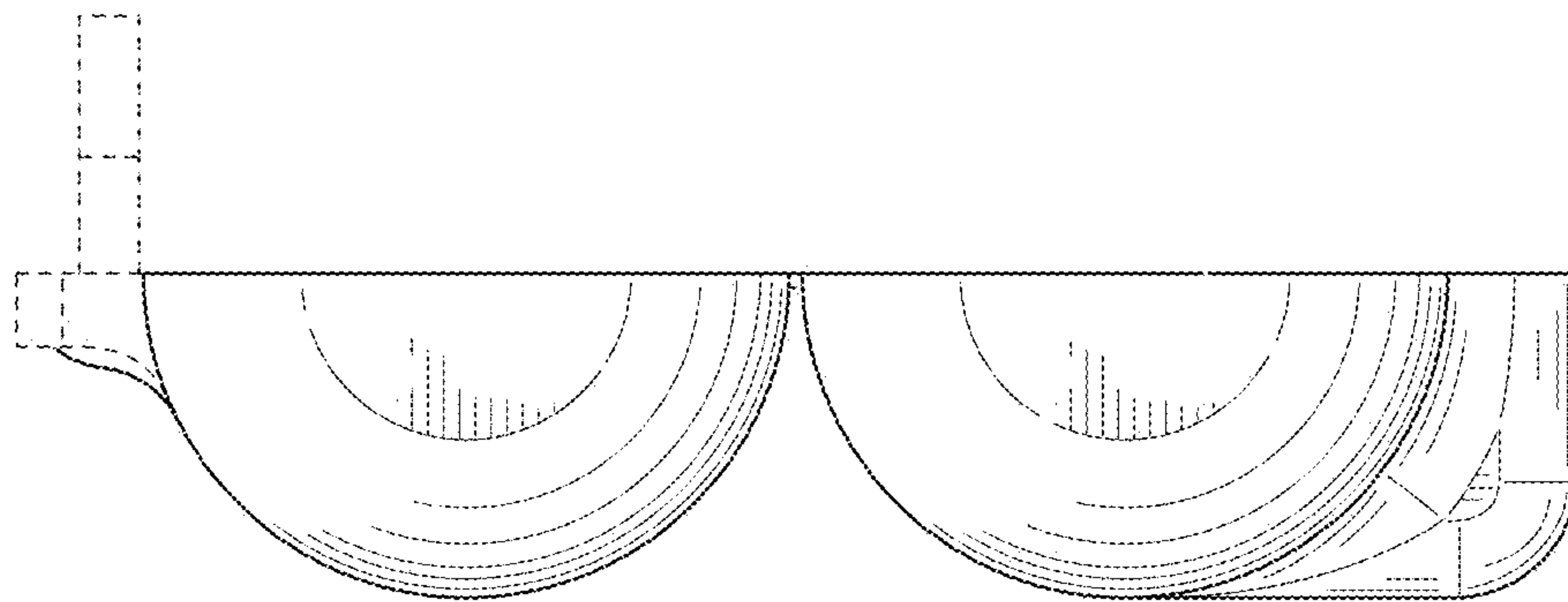


FIG. 46

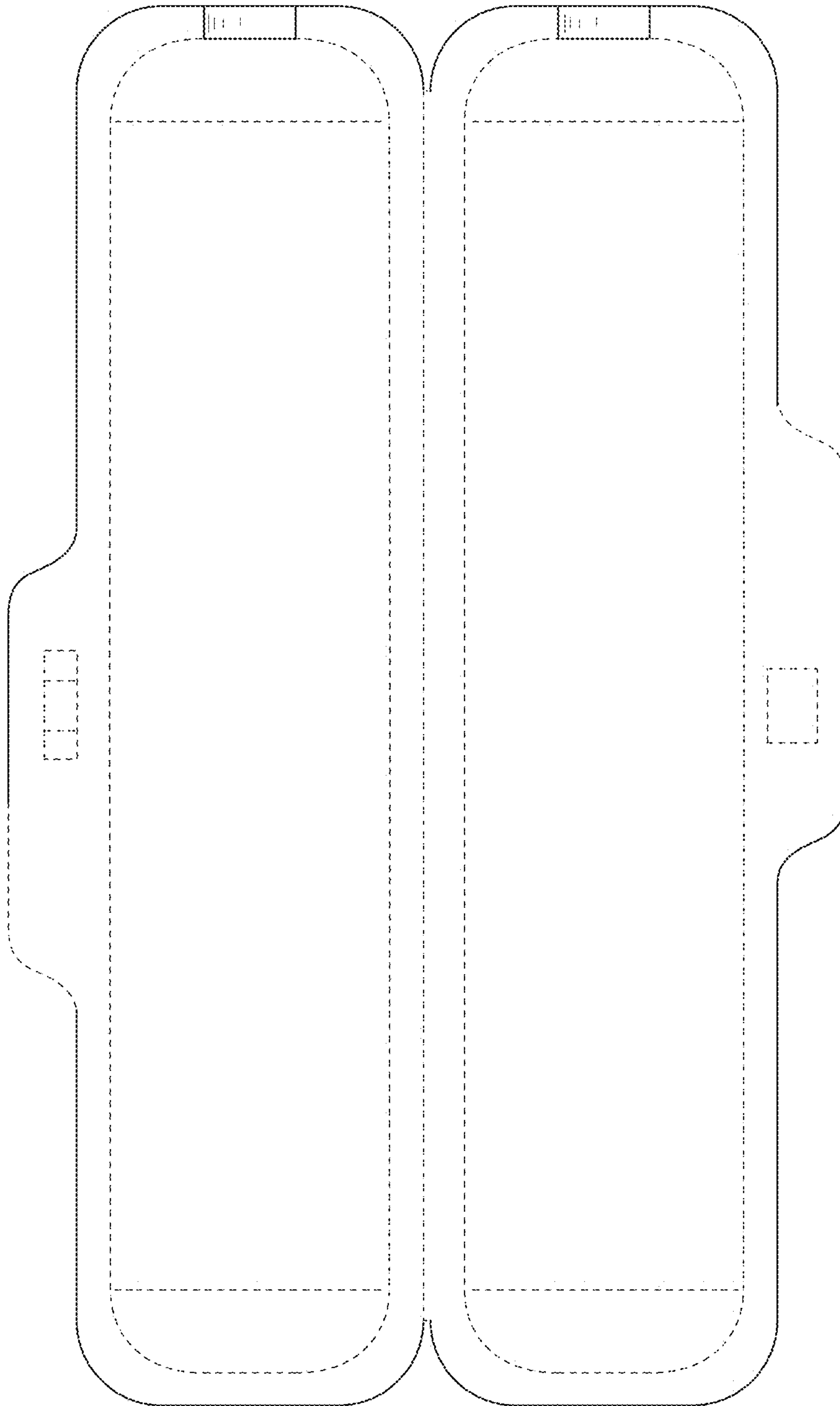


FIG. 47

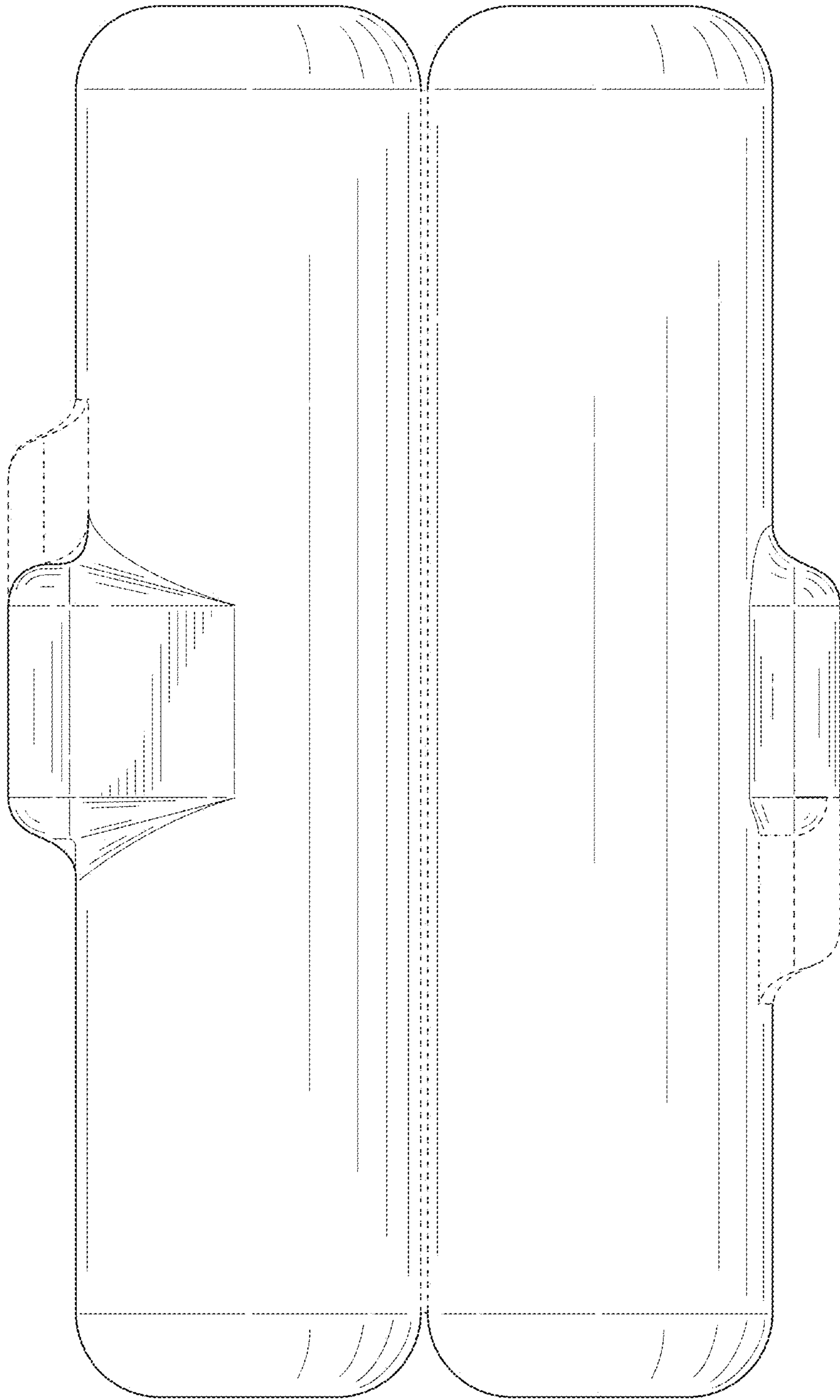


FIG. 48